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ENVIRONMENTAL ASSESSMENT
FOR MARCH 6, 2001
STATE OF MONTANA OIL AND GAS LEASE SALE

STATE DOCUMENTS COLLECTION

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MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
Trust Land Management Division
Minerals Management Bureau
Helena, MT

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

TRUST LAND MANAGEMENT DIVISION
JUDY H. MARTZ, GOVERNOR
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STATE OF MONTANA
DIRECTOR'S OFFICE (406) 444-2074
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HELENA, MONTANA 59620-1601

January 30, 2001

To Whom it may concern:

I have reviewed the attached Environmental Assessment for the March 6, 2001 lease sale. The stipulations, as listed in Appendix A, sufficiently mitigate environmental concerns with leasing the proposed tracts. There is no need for an EIS for this lease sale.

Monte G. Mason

Monte G. Mason, Acting Administrator
Trust Land Management Division

1/30/01
Date

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

TRUST LAND MANAGEMENT DIVISION

JUDY H. MARTZ, GOVERNOR

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DIRECTOR'S OFFICE (406) 444-2074
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HELENA, MONTANA 59620-1601

ENVIRONMENTAL ASSESSMENT
ON THE
March 6, 2001
OIL AND GAS LEASE SALE
Montana Department of Natural Resources and Conservation
Trust Land Management Division

I. Introduction

The State of Montana owns over six million acres of oil and gas rights that are scattered across the state. The lands that these mineral rights lie under are varied, consisting of timber, grazing, and agricultural land. The state also owns mineral rights below navigable lakes and streams in Montana. Each land type will be impacted differently by oil and gas related activity.

This document contains the environmental review of lands nominated for oil and gas leasing for the **March 6, 2001** lease sale. Alternatives reviewed in this document are 1) No Action - deny the oil and gas lease; and 2) Approve the oil and gas lease with appropriate stipulations.

II. Purpose and Need for the Action

The Montana Department of Natural Resources and Conservation (DNRC) - Trust Land Management Division (TLMD) has received nominations for **244** tracts of land totaling **98,000.51** acres for the purpose of oil and gas exploration and development. A listing of these tracts and their locations are found in Appendix A.

Prior to leasing the nominated tracts, the TLMD must review each tract for potential impacts on the human and natural environment from oil and gas operations. By leasing lands for oil and gas exploration, the trusts administered by TLMD benefit from rental and potential royalty income.

III. Agency Responsibilities

A. Department of Natural Resources and Conservation

The Department of Natural Resources and Conservation (DNRC) - Trust Land Management Division (TLMD) is authorized to lease state-owned oil and gas for exploration and development (MCA 77-3-401, et seq.). Oil and gas lease sales occur quarterly, as required by ARM 26.3.206(1). Under the Montana Environmental Policy Act (MCA 75-1-201, et seq.), the TLMD must review leasing of nominated tracts for potential impacts on the human and natural environment prior to leasing unless a clause for denial of activity is added to the lease.

The TLMD must decide whether to lease the nominated tracts with appropriate stipulations or deny leasing.

B. Board of Oil and Gas Conservation

The Board of Oil and Gas Conservation (BOGC) is responsible for requiring "measures to be taken to prevent contamination of or damage to surrounding land or underground strata caused by drilling operations and production..." (MCA 82-11-111(2)(a)). The BOGC issues permits for oil and gas drilling operations (MCA 82-11-122), and also oversees proper plugging and abandonment of seismic shotholes and oil and gas wells (MCA 82-11-123(4)). All permitting by the BOGC is subject to an environmental review under the Montana Environmental Policy Act (MCA 75-1-201, et seq.). A programmatic EIS on oil and gas activity was completed by the BOGC in 1989 (BOGC, 1989) and is incorporated in this EA by reference. TLMD adopts the conclusions and information contained in that EIS.

The BOGC is not involved in leasing decisions taken by the TLMD.

IV. Procedure

Notification of the tracts nominated for lease was submitted to the following agencies and individuals for review and comments:

Montana Department of Natural Resources and Conservation - Trust Land Management Division Area Office Managers
Montana Department of Natural Resources and Conservation - TLMD Archeologist and Hydrologist/geologist
Montana Department of Natural Resources and Conservation - TLMD Minerals Management Bureau Chief, Forest Management Bureau Chief, and Land Management Section Supervisor - Agricultural and Grazing Bureau
Montana Department of Fish, Wildlife and Parks Regional Offices and Field Biologists at applicable Area Resource Offices
Montana Natural Heritage Program
Helena National Forest Supervisor
Oil and Gas Lease Sale Mailing List
Bureau of Land Management, Great Falls and Billings
Department Website (http://www.dnrc.state.mt.us/trust/tlmdhome.htm)

Comments received from these agencies and individuals are reviewed and stipulations are developed for each tract nominated for leasing. Agency comments are located in Appendix C. Appendix D contains public comments. The department received public comments only from Montana Wilderness Association as of the January 26, 2001 public comment deadline. Late comments are included in Appendix E.

Issues reviewed for this process include:

The presence of sensitive plant and animal communities.
The presence of historical or cultural sites.
Potential impacts of oil and gas related activities on soils, hydrology, wildlife, vegetation, and human resources.
Potential for "No Surface Occupancy" restrictions.
Potential conflicts with current land use (such as Federal Farm Programs including CRP).
Other potential resources for the tract.

Field evaluations from past inspections, information from DNRC-TLMD field office files, and, if necessary, additional on-site evaluations are used by the TLMD field staff in assessing potential impacts from oil and gas

leasing and subsequent development. Information contained in the programmatic EIS produced by the BOGC (BOGC, 1989) is also utilized in determining the potential impacts of future oil and gas development for the nominated tracts. Stipulations are then attached to the lease to provide resource protection during future lease operations. These stipulations range from strict, no surface occupancy restrictions to requirements for operating plan approval (with the potential of future denial) to buffer and avoidance stipulations, and surface damage settlement issues. A list of example stipulations is located in Appendix B. Four of these stipulations are placed on all leases and are denoted in Appendix B with an asterisk. Operating plan review is required on all leases either through the use of stipulation A-1 or the sensitive areas stipulations F-1, F-2, or F-3 (see Appendix B).

For all nominated tracts, additional environmental assessments will be completed with the receipt of an operating plan by both TLMD and the BOGC. Potential problems are mitigated at that time through modifications in the plan. TLMD can not deny drilling of a well unless stipulated at the time of the lease, but stipulations can be added to the operating plan to mitigate impacts. The BOGC, however, may deny a drilling permit or include additional stipulations in the drilling permit.

For tracts nominated in potentially sensitive areas, three special stipulations have been developed (Appendix B, stipulations F-1, F-2, and F-3). These stipulations create a tiered environmental review process with the potential for future denial of activities. An impact analysis is not required prior to leasing a tract with a sensitive area stipulation. (North Fork Preservation Assoc. v. Dept of State Lands, 238 Mont. 451, 778, P.2d 862 (1989); Conner v. Burford, 836 F.2d 1521 at 1528 (9th Cir., 1988)). When activity is proposed on a lease, the operating plan receives an environmental review. This review consists of an evaluation of impacts of the proposed action. Additional stipulations and mitigating measures may be required prior to the activity, or activity may be denied. Depending on the location and potential impacts from the specific activity proposed, this environmental review could consist of a basic Environmental Assessment up to a full Environmental Impact Statement. Additional environmental assessments may be necessary with further development of the lease. Environmental assessments are completed as necessary throughout the term of the lease.

The Trust Land Management Division of DNRC developed the sensitive areas stipulation (F-1, Appendix B) for areas that contain some elements that are environmentally sensitive, but are not location dependant. However, this stipulation has also been utilized where state mineral estate is in or immediately adjacent to cities, parks, wildlife refuges, Indian reservations, or Forest Service land, etc. in compliance with State Land Board direction.

The State Land Board developed stipulation F-2 to address the level of interest and concern expressed over leasing and possible development of state lands located in western Teton and northwestern Lewis and Clark Counties (i.e. the lower elevation eastern slopes of the Rocky Mountain Front, generally west of Choteau and Augusta). Stipulation F-2 outlines Land Board review and approval and delineates the review process.

Stipulation F-3 (Appendix B) has been developed to address the level of interest and concern expressed for school trust land within or adjacent to the Sleeping Giant and Sheep Creek Wilderness Study Area, the Beartooth State Wildlife Management Area, and/or the Gates of the Mountains Wilderness. These areas fall outside the Rocky Mountain Front description noted above. The F-3 sensitive area stipulation is similar to F-2 in that it specifically outlines

Land Board review and approval and delineates the review process. As a part of this review "No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board." After completion of the review, the Land Board may approve, modify, or deny surface activity on the lease.

V. Public Notification

Public notice of nominated tracts and request for comments is made two months prior to the lease sale in the Rocky Mountain Oil Journal, Billings Gazette, Great Falls Tribune, and Helena Independent Record. The tract list is sent to everyone on the Department's mailing list of approximately 800 individuals, organizations, and companies. Anyone can be added to the mailing list by contacting the Department. Lease sale lists, dates, and important deadlines are also available on the Department's Internet web site (http://www.dnrc.state.mt.us/trust/tlmdhome.htm). After completion of the Oil and Gas Lease Sale EA, the list of nominated tracts and attached stipulations is published in the Rocky Mountain Oil Journal, made available on the Department's Internet web site, and mailed to everyone on the Department's mailing list.

VI. Resource Analysis

The following issues were analyzed for potential impact on state owned land:

A. Wildlife:

Potential impacts on wildlife for each tract are analyzed by the Department of Natural Resources and Conservation (DNRC) - Trust Land Management Division (TLMD) field office staff with additional input from the MT Department of Fish, Wildlife and Parks (DFWP) regional office staff. Letters requesting information on potential impacts from oil and gas activities are sent to each DFWP regional office by electronic mail or postal mail. Information provided by the MT Natural Heritage Program (MNHP) is also reviewed. Based on comments and information provided, stipulations are applied to protect wildlife resources. If no site-specific response is received from DFWP or TLMD field offices, and the MNHP search turns up no element occurrence data, then no additional stipulations are added to the tract. However, the standard operating plan review stipulation (number 1 in the application list in Appendix A) still allows coverage of wildlife concerns that may arise in any subsequent site-specific review.

For the March 6, 2001 MT Oil and Gas Lease Sale, stipulations have been applied to various tracts due to wildlife concerns. Utilization of the Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation (number 20 in the application list in Appendix A, F-3 in Appendix B) on application numbers 5005-5006, 5028-5030, and 5033 in Lewis and Clark County addresses wildlife and fishery concerns. These include elk, bighorn sheep, mountain goats, bald eagles, peregrine falcons, bear, mountain lions, and westslope cutthroat trout. Other tracts in Lewis and Clark County (application numbers 5023-5027, 5031-5032, 5082-5088, 5008-5014, and 5035) have the sensitive areas stipulation (number 19 in the application list in Appendix A, F-1 in Appendix B) applied to address wildlife concerns for various species including grizzly bears, lynx, bald eagles, elk, mule deer, pronghorn antelope, wolves, black bear, mountain lions, and bighorn sheep. In Cascade County the utilization of the sensitive areas stipulation addresses concerns for species including bighorn sheep and westslope cutthroat trout on application number 5007.

The sensitive areas stipulation (number 19 in Appendix A)has been applied for concerns including wildlife in other counties. In Wibaux County it is utilized on application number 5207 which adjoins the Lame Steer National Wildlife Refuge. In Toole County, application number 5118 received comments from MT-DFWP Region 4 regarding yearlong usage by mule deer and elk. This tract is also adjacent to the BLM's West Butte Study Area in the Sweet Grass Hills. The sensitive areas stipulation is applied to this tract due to these comments and the tract's location. The application of the sensitive areas stipulation on application numbers 5015 and 5017 and the 1/8th-mile river buffer stipulation (number 14 in Appendix A) on number 5016 in Powder River County covers concerns for sturgeon chub in the Powder River.

Other stipulations are also used to address concerns for wildlife. The wildlife survey stipulation (see number 11 in Appendix A) is utilized on application numbers 5020 and 5022 in Blaine County and numbers 5100 and 5101 in Phillips County for swift fox. In Pondera County (application numbers 5089-5091) and Toole County (application numbers 5102-5103) it is applied for ferruginous hawks. Burrowing owls are also covered by placing this stipulation on application number 5022 in Blaine County. Two different wildlife timing restriction stipulations are utilized on tracts in Carbon County. Application numbers 5137 and 5140 have a December 1 to April 15 restriction (see stipulation 16, Appendix A) due to concerns for mule and white-tail deer winter range. Application number 5139 has a restriction applied (see stipulation 17, Appendix A) from May 1 to June 30 for elk calving. In addition, the 100-ft stream, etc. buffer stipulation (number 7, Appendix A) covers concerns on application number 5229 in Wibaux County for meadow jumping mice.

B. Water Quality:

Potential impacts on surface water resources are analyzed by the TLMD field office staff and the TLMD hydrologist/geologist. Notation is made on locations of perennial and intermittent streams, lakes, ponds, wetlands, springs, wells, ditches, canals, prairie potholes, etc. within a nominated tract. If set-backs from water resources are required, a stipulation is applied to protect these resources. Ground water resource protection is required by the BOGC, and BOGC permitting is contingent on adequate protection. For this lease sale the 100-ft buffer stipulation is utilized for various scenarios on 153 tracts (see stipulation 7 in application list in Appendix A).

Streams, ponds, wetlands, reservoirs, etc. on application numbers, 5023-5027, 5031-5032, 5082-5088, 5008-5014, and 5035) in Lewis and Clark County will be covered by application of the sensitive areas stipulation (number 19, Appendix A). Similarly, these features are covered on tracts in Liberty, Toole, Powder River, and Wibaux Counties where this stipulation is also utilized. Moreover, these features on application numbers 5005-5006, 5028-5030, and 5033 in Lewis and Clark County come under application of the Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation (number 20, Appendix A) to these tracts.

Other stipulations are applied to larger water bodies. For this sale, the no-surface occupancy stipulation for navigable river beds and related acreage has been utilized for the Missouri River. It is applied to application number 5012, 5014, 5029, and 5033 in Lewis and Clark County (see stipulation 13 in the application list in Appendix A). The river, lake/reservoir (1/8-mile) buffer stipulation (see stipulation 14, Appendix A) is utilized on Powder River County application number 5016 due to reaches of the Powder River cutting the tract. It is also added to application numbers 5121 and 5127 in Daniels County where reaches of the West Fork of the Poplar River cut these tracts. Choteau County application numbers 5058-5059 and 5080-5081 receive this buffer stipulation due

to the lake or reservoir present on the tracts, respectively. The utilization of the sensitive areas stipulation (number 19, Appendix A) on applications 5015 and 5017 in Powder River County addresses concerns regarding the Powder River flowing through these tracts.

C. Soils and Topography:

TLMD field office personnel review soil surveys conducted by the USDA-NRCS along with field notes from previous inspections to determine the potential for impacts to fragile soils. If protection of fragile soils is needed, a stipulation is implemented to protect the resource. The TLMD field office personnel and the TLMD geologist/hydrologist also review topographic maps to obtain an indication of the topography. For the March 6, 2000 MT Oil and Gas Lease Sale, rough/steep topography or fragile, unstable soils have resulted in stipulation 10 (see Appendix A) being applied to 18 various tracts. Soils and other surface concerns that may arise during a site-specific review are also handled through the standard operating plan review stipulation (see number 1, Appendix A). Steep topography and/or unstable soils application numbers 5005-5006, 5028-5030, and 5033 in Lewis and Clark County are covered by utilization of the Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive areas stipulation (number 20, Appendix A). This concern is is also addressed on application number 5007 in Cascade County and application numbers 5023, 5025, 5027, 5031, 5082-5088, 5008-5014, and 5035 in Lewis and Clark County by application of the sensitive area stipulation (number 19, Appendix A) on these tracts.

D. Vegetation

TLMD field office personnel review records in the office for potential impacts on vegetation in an area. Information provided by the Montana Natural Heritage Program is also reviewed by the TLMD geologist/hydrologist. If rare plants or potential for significant impacts exist on a tract, stipulations are implemented to protect these resources. The vegetation survey stipulation (number 12, Appendix A) will be applied to application numbers 5002 and 5001 in Carter County for narrowleaf penstemon and plains phlox and to application number 5034 in Carbon County for Gray's milkvetch, obscure evening primrose, and yellow bee plant. This Carbon County tract contains a MT-Natural Heritage site for Gray's milkvetch.

In addition, some tracts contain wooded areas that occur outside the area covered by the riparian buffer stipulation (number 7, Appendix A). In order to minimize disturbance to this vegetation, the avoid wooded areas stipulation (see stipulation 9, Appendix A) is utilized on 32 various tracts for the March 6, 2001 MT Oil and Gas Lease Sale. Application of the Sleeping Giant & Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation (number 20, Appendix A) covers wooded areas on application numbers 5005, 5006, 5028, 5029, 5030 and 5033 in Lewis and Clark County. Placement of the sensitive area stipulation (number 19, Appendix A) on the remaining application numbers in Lewis and Clark County and on number 5007 in Cascade County will address wooded areas on these tracts. Wooded areas are also covered by the sensitive areas stipulation applied to application numbers 5015 and 5017 in Powder River County and 5118 in Toole County.

Since weeds are a concern throughout Montana, a stipulation is added to each lease (see stipulation 4 in Appendix A). This stipulation holds the lessee responsible for controlling noxious weeds introduced by the lessee's activity on the tract and preventing their spread. Where weeds are especially a problem, a special stipulation (see stipulation 18 in Appendix A, W in Appendix B) is utilized in addition to stipulation 4. For this sale, an extreme problem with

leafy spurge has been noted for the application number 5016 in Powder River County and this stipulation has been applied. Utilization of the sensitive areas stipulation (number 19, Appendix A) on application numbers 5015 and 5017 also in Powder River County covers this weed concern.

E. Land use conflicts:

Nominated tracts are reviewed by TLMD field office personnel for current land use, and potential conflicts are noted. Each lease contains a clause that indicates the oil and gas lessee agrees to be responsible for payment of actual surface damages arising from oil and gas exploration or development. A special stipulation is added to the lease for land involved in the Conservation Reserve Program (CRP)(Appendix A, stipulation 8). This stipulation is applied to application numbers 5119-5124, and 5126-5127 in Daniels County, to 5168, 5185, and 5191 in Hill County, to 5089 and 5091 in Pondera County, and to 5219 and 5232 in Wibaux County. The lease terms also prohibit drilling within 200 feet of a residence or barn. Usually, oil and gas activity only impacts a small portion of any lease, and conflicts with current land use are rare.

Special stipulations are also utilized for information, for avoidance, or other needed mitigation as warranted. For the March 6, 2001 MT Oil and Gas Lease sale, several stipulations address concerns for existing uses. The no-surface-occupancy of highway tracts stipulation (number 21, Appendix A) is utilized on 18 MDOT highway tracts in Wibaux County. In addition, application of the Sleeping Giant & Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation (number 20, Appendix A) to application numbers 5005-5006, 5028-5030, and 5033 in Lewis and Clark County covers concerns for these tracts located within or adjacent to the Beartooth Wildlife Management Area, the Sleeping Giant and Sheep Creek Wilderness Study Area, and/or the Gates of the Mountains Wilderness.

Furthermore, areas where the state does not own the surface receive the stipulation requiring contact of the surface owner. These tracts occur in varied locations and are also designated in the application list by text and an asterisk (see Appendix A, stipulation 6). This contact stipulation is applied to 73 tracts on the March 6, 2001 MT Oil and Gas Lease Sale.

F. Historical and Cultural Resources:

Each nominated tract is reviewed by the TLMD archeologist for the presence of known historical or cultural sites and for the potential of discovery of a new historical or cultural site. Where applicable, TLMD field office staff and the TLMD geologist/hydrologist are consulted regarding paleontological resources on the tracts. A stipulation is added to each lease that protects archaeological, historic, and paleontological sites, and surface activities may be restricted if a significant site is discovered during the lease term (see Appendix A, stipulation 3).

G. Existing facilities/Geologic potential

Each nominated tract is reviewed by the TLMD geologist/hydrologist and Minerals Management Bureau Chief for production potential, production or drilling history, and existing facilities. If concerns exist, stipulations are added to the lease. Example stipulations for these circumstances are located in Appendix B, stipulations K-M. For the March 6, 2001 sale, a modified version of the existing facilities stipulation (number 15 in Appendix A, L-2 in Appendix B) is utilized on application number 5128 in Toole County.

H. Sensitive Areas

The reasons for sensitive area concerns are varied. They can stem from location of the area or result from concerns regarding one or more of the resource areas mentioned above. For tracts nominated in potentially sensitive areas, three special stipulations have been developed that create a tiered environmental review process with the potential for future denial of activities (Appendix B, stipulations F-1, F-2, and F-3). For this March 6, 2001 Montana Oil and Gas Lease Sale, comments from the MT Department of Fish Wildlife and Parks (DFWP) Regions 3 and 4 and the Montana Wilderness Association indicated that tracts in Lewis and Clark County are in sensitive areas. MT-DFWP Region 4 also had concerns regarding application number 5118 in Toole County.

DNRC has created a stipulation similar to the Rocky Mountain Front stipulation for use on the tracts within or adjacent to the Sleeping Giant and Sheep Creek WSA, the Beartooth WMA, or the Gates of the Mountains Wilderness. DNRC proposes to apply the Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation, (number 20 in the application list in Appendix A, F-3 in Appendix B) to application numbers 5005, 5006, 5028, 5029, 5030, and 5033 in Lewis and Clark County. This determination resulted from their locations. Application numbers 5005, 5006, and 5029 are adjacent to the Dept. Of Fish, Wildlife and Parks' Beartooth Wildlife Management Area. This WMA is managed by DFWP in a manner and for wildlife objectives very similar to the Sun River Game Range. DFWP review and recommendation on the previous December 2000 lease sale was for a Rocky-Mountain-Front-type sensitive areas stipulation for a tract adjoining the Beartooth WMA. The Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation is similar to F-2, (Appendix B) in that it specifically outlines Land Board review and approval and delineates the review process. As a part of this review "No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board." After completion of the review, the Land Board may approve, modify, or deny surface activity on the lease. Application number 5028 is just within the Sleeping Giant and Sheep Creek Wilderness Study Area and 5030 is adjacent to the study area boundary. BLM recommended this WSA for wilderness designation in their final EIS after public comment on the draft EIS where wilderness designation was not originally proposed. A portion of the Gates of the Mountains Wilderness is located in close proximity to application number 5033.

In addition, DNRC proposes to apply the sensitive areas stipulation (number 19 in the application list in Appendix A, F-1 in Appendix B) to application numbers 5023-5027, 5031-5032, 5082-5088, 5008-5014, and 5035 in central Lewis and Clark County and to 5007 in Cascade County. The Land Board has leased in this area in December 1999 and June 2000 and utilized the sensitive areas stipulation (F-1, Appendix B) These tracts on the March 6, 2001 MT Oil and Gas Lease Sale are located southwest of Wolf Creek, MT, north and northwest of Lake Helena, southwest, east, and northeast of Craig, MT, and east of Highway 200 (south of Bowmans Corners). However, because of their general location in an area where species of general concern exist, the sensitive area stipulation is again believed appropriate.

Furthermore, in accordance with Land Board direction, the sensitive areas stipulation is also utilized on application number 5207 in Wibaux County which is adjacent to the Lame Steer National Wildlife Refuge (see number 19 in Appendix A). It is also applied to application numbers 5093-5095, 5131, and 5136 in

Liberty County due to their location within and/or adjacent to the East Butte Study Area of the Sweet Grass Hills (SGH). The sensitive areas stipulation is also placed on application number 5118 in Toole County which is adjacent to the West Butte Study Area of the SGH. Two tracts in Powder River County (application numbers 5015 and 5017) have this stipulation applied due to their proximity to the Buffalo Creek Wilderness Study area, a WSA that was not recommended by BLM for wilderness designation. Number 5015 is also located close to the BLM ACEC for the Reynolds Battlefield Historic Site and a larger area of management concern for BLM.

VII. Impact Analysis

A. No Action Alternative - Deny the oil and gas lease.

If a lease is denied, the only resource that would be negatively impacted is the loss of revenue from rental and royalty payments to the appropriate trust. All other resources would not be affected.

B. Leasing Alternative

Comments received on potential impacts for these tracts are located in Appendices C, D, and E. MT-DNRC submitted the proposed tract list for agency comments on **December 29, 2000** and requested comments by **January 24, 2001** for consideration in formulating the stipulations. Agency comments are included in Appendix C. The tract list was made available to the public in early January 2001 for interested party comments. These comments must have been received by **January 26, 2001** for consideration in formulating the stipulations. Public comments received by this date are included in Appendix D. The department received three late agency comments as of January 30, 2001. They are included in Appendix E. Tracts nominated for oil and gas leasing and proposed stipulations are listed in Appendix A.

VIII. Need for an Environmental Impact Statement

The DNRC-TLMD is required to evaluate each action to a "level of detail appropriate to the following considerations: ...the complexity of the proposed action,...the environmental sensitivity of the area affected,...the degree of uncertainty that the proposed action will have a significant impact on the quality of the human environment,...and...the need for and complexity of mitigation required to avoid the presence of significant impacts" (ARM 26.2.645 (2)).

Since environmentally sensitive tracts are stipulated for future environmental review with the submittance of an operating plan, all other tracts nominated are located in areas where potential impacts are minor or can be mitigated upon receipt and review of an operating plan, and the BOGC must approve an operating plan within MEPA prior to drilling activity, an Environmental Impact Statement is not required for the leasing action.

IX. Preparers

Compilation and preparation:

Teresa Kinley, Geologist/Hydrologist, Department of Natural Resources and Conservation (DNRC) - Trust Land Management Division (TLMD)

Agencies and persons consulted:

Monte Mason, Minerals Management Bureau Chief, DNRC-TLMD
Patrick Rennie, Archeologist, DNRC-TLMD
Craig Roberts, Area Manager, Northeast Land Office, DNRC-TLMD
Mark Ahner, Area Manager, Central Land Office, DNRC-TLMD
Dwayne Andrews, Area Manager, Eastern Land Office, DNRC-TLMD
Don Kendall, Area Manager, Southern Land Office, DNRC-TLMD
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Harvey Nyberg, Regional Supervisor, DFWP Region 5
Jim Satterfield, Regional Supervisor, DFWP Region 6
Don Hyppa, Regional Supervisor, DFWP Region 7
Martin Miller, Montana Natural Heritage Program
Paul Sihler, Montana Dept. Of Fish, Wildlife and Parks, Helena

X. References

Board of Oil and Gas Conservation. 1989. Programmatic Environmental Impact Statement on Oil and Gas Drilling and Production in Montana, (draft: Jan, 1989, final: Dec, 1989).

U.S. Department of the Interior, 1990, Sleeping Giant and Sheep Creek Wilderness Study/Environmental Impact Statement (Draft), Butte District Office, Butte, MT, 85 p.

U.S. Department of the Interior, 1991, Sleeping Giant and Sheep Creek Wilderness Study/Environmental Impact Statement (Final), Butte District Office, Butte, MT, 129 p.

U.S. Department of the Interior, 1991, Montana Statewide Wilderness Study Report, Volume I - Statewide Overview, Bureau of Land Management, Montana State Office, Billings, MT, 6 p.

U.S. Department of the Interior, 1991, Montana Statewide Wilderness Study Report, Volume II - Wilderness Study Area Specific Recommendations, Bureau of Land Management, Montana State Office, Billings, MT, 291 p.

U.S. Department of the Interior, 1996, Sweet Grass Hills Ammendment and Environmental Impact Statement (Final), Bureau of Land Management, Lewistown District Office, Lewistown, MT, 162 p.

APPENDIX A: Nominated Tract Locations and Stipulations

STATE OF MONTANA
OIL & GAS LEASE SALE - MARCH 6, 2001

HYDROLOGIST'S REPORT

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION							
BLAINE							
5019	1,2,3,4,5	30.N	20.E	7	LOT 4, E2SW4		122.52
5003	1,2,3,4,5,6,7,9	31.N	19.E	36	ALL STATE DOES NOT OWN THE SURFACE IN THE E2.	*	640.00
5020	1,2,3,4,5,6,7,11	33.N	18.E	35	SE4 STATE DOES NOT OWN THE SURFACE.	*	160.00
5022	1,2,3,4,5,7,11	34.N	20.E	16	ALL		640.00
CARBON							
5137	1,2,3,4,5,6,7,10,16	5.S	21.E	36	ALL STATE DOES NOT OWN THE SURFACE IN PART OF THE N2NW4, NE4.	*	640.00
5138	1,2,3,4,5,6,7	6.S	21.E	16	ALL STATE DOES NOT OWN THE SURFACE IN THE N2, W2SE4, SW4.	*	640.00
5139	1,2,3,4,5,7,9,10,17	6.S	22.E	16	ALL		640.00
5140	1,2,3,4,5,7,9,10,16	7.S	21.E	36	LOTS 1 THRU 8		312.79
5034	1,2,3,4,5,7,10,12	8.S	24.E	16	ALL		640.00
CARTER							
5002	1,2,3,4,5,7,9,10,12	2.N	60.E	16	ALL		640.00
5001	1,2,3,4,5,7,12	2.N	60.E	36	ALL		640.00
CASCADE							
5007	2,3,4,5,19	15.N	1.W	16	ALL		640.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
CHOUTEAU							
5036	1,2,3,4,5,6,7	25.N	15.E	16	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5037	1,2,3,4,5,6,7	25.N	15.E	17	S2NE4, E2SW4, SE4 STATE DOES NOT OWN THE SURFACE.	*	320.00
5038	1,2,3,4,5,6,7,9	25.N	15.E	29	SW4NW4, SW4, N2SE4, SW4SE4 STATE DOES NOT OWN THE SURFACE.	*	320.00
5039	1,2,3,4,5,7	25.N	15.E	36	ALL		640.00
5040	1,2,3,4,5,7,9,10	25.N	16.E	16	LOTS 1, 2, 3, 4, W2E2, W2		643.56
5041	1,2,3,4,5,7,9,10	25.N	16.E	36	LOTS 1, 2, 3, 4, W2, SE4		642.52
5042	1,2,3,4,5,7	26.N	14.E	1	LOTS 1, 2, 3, 4, S2N2, S2		639.12
5043	1,2,3,4,5,7	26.N	14.E	2	LOTS 1, 2, 3, 4, S2N2, S2		638.52
5044	1,2,3,4,5,7	26.N	14.E	3	LOTS 1, 2, 3, 4, S2N2, S2		639.40
5045	1,2,3,4,5,7	26.N	14.E	4	LOTS 1, 2, 3, 4, S2N2, S2		641.04
5046	1,2,3,4,5,7	26.N	14.E	5	LOTS 1, 2, 3, 4, S2N2, S2		641.04
5047	1,2,3,4,5,6,7	26.N	14.E	6	LOTS 1, 2, 3, 4, 5, 7, S2NE4, SE4NW4, E2SW4, SE4 STATE DOES NOT OWN THE SURFACE.	*	592.00
5048	1,2,3,4,5,6,7,9	26.N	14.E	8	ALL STATE DOES NOT OWN THE SURFACE IN THE SE4.	*	640.00
5049	1,2,3,4,5,7,9	26.N	14.E	9	ALL		640.00
5050	1,2,3,4,5,7	26.N	14.E	10	ALL		640.00
5051	1,2,3,4,5,7	26.N	14.E	11	ALL		640.00
5052	1,2,3,4,5,7	26.N	14.E	12	ALL		640.00
5053	1,2,3,4,5,6,7	26.N	14.E	13	ALL STATE DOES NOT OWN THE SURFACE IN THE NE4, S2.	*	640.00
5054	1,2,3,4,5,7	26.N	14.E	14	ALL		640.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5055	1,2,3,4,5,7	26.N	14.E	15	ALL		640.00
5056	1,2,3,4,5,6,7	26.N	14.E	23	N2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5057	1,2,3,4,5,6,7	26.N	14.E	24	E2, NW4, E2SW4 STATE DOES NOT OWN THE SURFACE IN THE NW4.	*	560.00
5058	1,2,3,4,5,7,14	26.N	14.E	25	LOT 1, NE4, E2NW4, SW4NW4, S2 (SUBJECT TO 70-16-201, MCA)		640.00
5059	1,2,3,4,5,6,7,14	26.N	14.E	26	LOT 1, W2NE4, SE4NE4, NW4, S2 (SUBJECT TO 70-16-201, MCA) STATE DOES NOT OWN THE SURFACE IN LOT 1, NW4, SE4NE4, W2NE4.	*	640.00
5060	1,2,3,4,5,7	26.N	14.E	35	E2E2, NW4NE4		200.00
5061	1,2,3,4,5,7	26.N	14.E	36	ALL		640.00
5062	1,2,3,4,5	26.N	15.E	3	LOTS 1, 2, 3, 4, S2N2		318.60
5063	1,2,3,4,5,7,9	26.N	15.E	4	LOTS 1, 2, 3, 4, S2N2		317.28
5064	1,2,3,4,5,6,7	26.N	15.E	5	LOT 4, SW4NW4, W2SW4, SE4SW4, SW4SE4 STATE DOES NOT OWN THE SURFACE.	*	238.85
5065	1,2,3,4,5,7	26.N	15.E	6	LOTS 1 THRU 7, S2NE4, SE4NW4, E2SW4, SE4		637.40
5066	1,2,3,4,5,6,7	26.N	15.E	7	LOTS 1, 2, 3, 4, E2, E2W2 STATE DOES NOT OWN THE SURFACE IN THE SE4.	*	639.72
5067	1,2,3,4,5,6,7,9	26.N	15.E	8	SE4NE4, W2E2, W2, NE4SE4 STATE DOES NOT OWN THE SURFACE.	*	560.00
5068	1,2,3,4,5,7	26.N	15.E	15	SW4NW4, W2SW4		120.00
5069	1,2,3,4,5,6,7,9	26.N	15.E	16	NE4, E2NW4, S2 STATE DOES NOT OWN THE SURFACE.	*	560.00
5070	1,2,3,4,5,6,7	26.N	15.E	17	NW4 STATE DOES NOT OWN THE SURFACE.	*	160.00
5071	1,2,3,4,5,6,7	26.N	15.E	18	LOTS 1, 2, 3, 4, NE4, E2NW4, SE4SW4, S2SE4 STATE DOES NOT OWN THE SURFACE.	*	520.88

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5072	1,2,3,4,5,6,7	26.N	15.E	19	LOTS 1, 2, 3, 4, NE4, E2W2, W2SE4 STATE DOES NOT OWN THE SURFACE.	*	562.16
5073	1,2,3,4,5,6,7	26.N	15.E	20	N2NE4, SE4NE4 STATE DOES NOT OWN THE SURFACE.	*	120.00
5074	1,2,3,4,5,6,7	26.N	15.E	21	N2, NE4SE4 STATE DOES NOT OWN THE SURFACE.	*	360.00
5075	1,2,3,4,5,7	26.N	15.E	22	W2NW4, NW4SW4		120.00
5076	1,2,3,4,5,6,7	26.N	15.E	28	SW4NW4 STATE DOES NOT OWN THE SURFACE.	*	40.00
5077	1,2,3,4,5,6,7	26.N	15.E	29	NW4, N2SW4 STATE DOES NOT OWN THE SURFACE IN THE NW4, NW4SW4.	*	240.00
5078	1,2,3,4,5,6,7	26.N	15.E	30	LOTS 1, 2, 3, 4, W2NE4, E2W2, NW4SE4 STATE DOES NOT OWN THE SURFACE.	*	443.04
5079	1,2,3,4,5,6,9	26.N	15.E	31	LOTS 1, 2, E2NW4 STATE DOES NOT OWN THE SURFACE.	*	161.74
5080	1,2,3,4,5,7,14	26.N	15.E	35	E2		320.00
5081	1,2,3,4,5,7,9,14	26.N	15.E	36	ALL		640.00
CUSTER							
5004	1,2,3,4,5,7,9,10	1.N	45.E	16	ALL		640.00
DANIELS							
5119	1,2,3,4,5,7,8,10	34.N	47.E	22	SW4, NE4, N2NW4		400.00
5120	1,2,3,4,5,7,8	35.N	44.E	3	LOTS 1, 2, 3, 4, S2N2, S2		639.40
5121	1,2,3,4,5,7,8,14	35.N	44.E	8	SW4, E2		480.00
5122	1,2,3,4,5,7,8	35.N	44.E	9	ALL		640.00
5123	1,2,3,4,5,7,8	35.N	44.E	10	ALL		640.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5124	1,2,3,4,5,7,8	35.N	44.E	11	ALL		640.00
5125	1,2,3,4,5,6,7	35.N	44.E	14	ALL STATE DOES NOT OWN THE SURFACE IN THE E2.	*	640.00
5126	1,2,3,4,5,6,7,8	35.N	44.E	15	ALL STATE DOES NOT OWN THE SURFACE IN THE NW4.	*	640.00
5127	1,2,3,4,5,7,8,14	35.N	44.E	16	ALL		640.00
DAWSON							
5228	1,2,3,4,5,7,10	15.N	57.E	16	ALL		640.00
HILL							
5144	1,2,3,4,5,7,10	33.N	10.E	4	LOTS 3, 4		81.60
5145	1,2,3,4,5,7,10	33.N	10.E	5	LOTS 1, 2		81.47
5146	1,2,3,4,5,6,7,9	33.N	10.E	16	ALL STATE DOES NOT OWN THE SURFACE IN THE NW4, S2.	*	640.00
5147	1,2,3,4,5,7	33.N	10.E	21	NW4		160.00
5148	1,2,3,4,5,6,7	33.N	10.E	36	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5237	1,2,3,4,5	33.N	11.E	4	LOTS 1, 2, 3, 4, S2N2		321.64
5238	1,2,3,4,5,7	33.N	11.E	5	S2		320.00
5239	1,2,3,4,5,7	33.N	11.E	8	E2W2, NW4NW4, SW4SW4		240.00
5240	1,2,3,4,5,7	33.N	11.E	16	ALL		640.00
5241	1,2,3,4,5	33.N	11.E	17	N2NW4		80.00
5242	1,2,3,4,5,6,7	33.N	11.E	31	LOTS 1, 2, 3, E2W2, E2 STATE DOES NOT OWN THE SURFACE.	*	600.19
5243	1,2,3,4,5,6	33.N	11.E	33	SE4NE4, NE4SE4, E2SE4SE4 LESS RR R/W STATE DOES NOT OWN THE SURFACE.	*	83.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5244	1,2,3,4,5,6,7	33.N	11.E	34	S2NW4, N2SW4, SW4SW4 STATE DOES NOT OWN THE SURFACE.	*	200.00
5143	1,2,3,4,5,7	34.N	8.E	19	NE4SW4		40.00
5149	1,2,3,4,5,7	34.N	10.E	3	LOTS 3, 4, SW4NW4, N2SW4, W2SE4		280.81
5150	1,2,3,4,5,7	34.N	10.E	10	N2NE4		80.00
5151	1,2,3,4,5,7	34.N	10.E	16	ALL		640.00
5152	1,2,3,4,5,6,7	34.N	10.E	31	W2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5153	1,2,3,4,5,7,9	34.N	10.E	36	ALL		640.00
5154	1,2,3,4,5,6	34.N	11.E	1	SW4 STATE DOES NOT OWN THE SURFACE.	*	160.00
5155	1,2,3,4,5,6,7	34.N	11.E	2	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5156	1,2,3,4,5,6	34.N	11.E	5	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5157	1,2,3,4,5,6	34.N	11.E	11	W2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5158	1,2,3,4,5,6,7	34.N	11.E	12	W2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5159	1,2,3,4,5,6,7	34.N	11.E	14	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5160	1,2,3,4,5	34.N	11.E	16	ALL		640.00
5161	1,2,3,4,5,6,7	34.N	11.E	18	SE4 STATE DOES NOT OWN THE SURFACE.	*	160.00
5162	1,2,3,4,5,6	34.N	11.E	19	NE4 STATE DOES NOT OWN THE SURFACE.	*	160.00
5163	1,2,3,4,5,6,9	34.N	11.E	20	W2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5164	1,2,3,4,5,6	34.N	11.E	29	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5165	1,2,3,4,5	34.N	11.E	33	W2		320.00
5166	1,2,3,4,5,7	34.N	11.E	36	ALL		640.00
5021	1,2,3,4,5,7	34.N	14.E	36	ALL		640.00
5104	1,2,3,4,5,6	35.N	8.E	9	S2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5105	1,2,3,4,5,6	35.N	8.E	10	S2SE4 STATE DOES NOT OWN THE SURFACE.	*	80.00
5106	1,2,3,4,5,6	35.N	8.E	15	NE4, N2SE4 STATE DOES NOT OWN THE SURFACE.	*	240.00
5107	1,2,3,4,5,7	35.N	8.E	16	ALL		640.00
5108	1,2,3,4,5,6,7,9	35.N	8.E	17	N2, N2S2 STATE DOES NOT OWN THE SURFACE.	*	480.00
5109	1,2,3,4,5	35.N	9.E	2	S2SW4		80.00
5110	1,2,3,4,5,7	35.N	9.E	3	N2SW4, SE4SW4, NW4SE4, S2SE4		240.00
5111	1,2,3,4,5,7	35.N	9.E	10	NE4NE4		40.00
5112	1,2,3,4,5	35.N	9.E	11	SE4SE4		40.00
5113	1,2,3,4,5,7	35.N	9.E	12	W2SW4		80.00
5114	1,2,3,4,5,7	35.N	9.E	13	W2NW4, N2SW4, SE4SW4, W2SE4		280.00
5115	1,2,3,4,5,6,7	35.N	9.E	16	ALL STATE DOES NOT OWN THE SURFACE IN THE N2.	*	640.00
5167	1,2,3,4,5	35.N	10.E	1	LOTS 1, 2, S2NE4, SE4		320.06
5168	1,2,3,4,5,7,8	35.N	10.E	15	E2		320.00
5169	1,2,3,4,5,6,7	35.N	10.E	16	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5170	1,2,3,4,5,6	35.N	10.E	17	NE4 STATE DOES NOT OWN THE SURFACE.	*	160.00
5171	1,2,3,4,5,7	35.N	10.E	19	LOTS 2, 3, E2SW4, SW4SE4		191.64
5172	1,2,3,4,5	35.N	10.E	20	NE4, E2SE4		240.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5173	1,2,3,4,5	35.N	10.E	21	W2NW4		80.00
5174	1,2,3,4,5,6	35.N	10.E	26	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5175	1,2,3,4,5,7	35.N	10.E	29	NW4NW4, S2NW4, NE4NE4, S2NE4, SW4, N2SE4		480.00
5176	1,2,3,4,5,7	35.N	10.E	30	E2, SE4NW4, E2SW4		440.00
5177	1,2,3,4,5,7	35.N	10.E	32	NW4, W2NE4, NW4SE4		280.00
5178	1,2,3,4,5,7	35.N	10.E	36	ALL		640.00
5179	1,2,3,4,5,7	35.N	11.E	8	NE4NE4		40.00
5180	1,2,3,4,5,7	35.N	11.E	9	SW4NW4, NW4SW4, SE4SW4		120.00
5181	1,2,3,4,5,6	35.N	11.E	10	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5182	1,2,3,4,5,7	35.N	11.E	14	E2		320.00
5183	1,2,3,4,5,6,7	35.N	11.E	15	S2, W2NE4, E2NW4, NW4NW4 STATE DOES NOT OWN THE SURFACE IN THE S2.	*	520.00
5184	1,2,3,4,5,7	35.N	11.E	16	ALL		640.00
5185	1,2,3,4,5,6,7,8	35.N	11.E	18	LOTS 1, 2, 3, 4, E2W2 STATE DOES NOT OWN THE SURFACE IN LOTS 1, 2, 3, E2W2.	*	316.24
5186	1,2,3,4,5,6	35.N	11.E	28	ALL STATE DOES NOT OWN THE SURFACE IN THE S2.	*	640.00
5187	1,2,3,4,5,9	35.N	11.E	31	LOTS 1, 2, 3, 4, E2W2		315.16
5188	1,2,3,4,5,6	35.N	11.E	32	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5189	1,2,3,4,5,7	35.N	11.E	36	ALL		640.00
5116	1,2,3,4,5,7	36.N	8.E	36	ALL		640.00
5117	1,2,3,4,5,7	36.N	9.E	30	E2		320.00
5190	1,2,3,4,5,7	36.N	11.E	16	ALL		640.00
5191	1,2,3,4,5,7,8	36.N	11.E	20	W2		320.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5192	1,2,3,4,5	36.N	11.E	29	N2		320.00
5193	1,2,3,4,5,7	36.N	11.E	30	LOTS 1, 2, E2NW4, E2		473.79
5194	1,2,3,4,5,7	36.N	11.E	31	LOTS 1, 2, 3, 4, E2W2		308.76
LEWIS & CLARK							
5023	2,3,4,5,19	12.N	3.W	7	LOTS 1, 2, NE4, E2NW4		317.40
5024	2,3,4,5,19	12.N	3.W	16	ALL		640.00
5025	2,3,4,5,19	12.N	3.W	18	SE4SW4, S2SE4		120.00
5026	2,3,4,5,19	12.N	3.W	30	LOTS 1, 2, 3, 4, E2W2, NE4		472.38
5027	2,3,4,5,19	12.N	3.W	36	ALL		640.00
5028	2,3,4,5,6,20	13.N	3.W	9	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5029	2,3,4,5,6,13,20	13.N	3.W	13	LOTS 7, 8, 11, SW4, W2SE4, MISSOURI RIVERBED AND RELATED ACREAGE STATE DOES NOT OWN THE SURFACE IN LOTS 7, 8, 11, SW4, W2SE4.	*	465.00
5030	2,3,4,5,20	13.N	3.W	16	N2		320.00
5031	2,3,4,5,19	13.N	3.W	28	NW4NE4, W2NW4, SE4NW4, NE4NE4, S2NE4, S2		600.00
5032	2,3,4,5,19	13.N	3.W	30	LOTS 1, 2, 3, 4, E2, E2W2		636.38
5033	2,3,4,5,13,20	13.N	3.W	36	LOTS 1, 2, 5, 6, NW4NE4, NW4, N2SW4, SW4SW4, MISSOURI RIVERBED AND RELATED ACREAGE		486.22
5005	2,3,4,5,20	14.N	2.W	6	LOTS 1, 2, S2NE4, SE4		309.37
5006	2,3,4,5,20	14.N	2.W	8	NW4NW4, S2N2, S2		520.00
5082	2,3,4,5,19	14.N	5.W	8	ALL		640.00
5083	2,3,4,5,19	14.N	5.W	14	E2NE4, NW4NE4, NE4NW4, W2W2		320.00
5084	2,3,4,5,19	14.N	5.W	18	E2		320.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5085	2,3,4,5,19	14.N	5.W	20	ALL		640.00
5086	2,3,4,5,19	14.N	5.W	22	W2NE4, NW4, NW4SW4		280.00
5087	2,3,4,5,19	14.N	5.W	28	N2NE4, E2NW4		160.00
5088	2,3,4,5,19	14.N	5.W	34	ALL		640.00
5008	2,3,4,5,19	15.N	2.W	10	ALL		640.00
5009	2,3,4,5,19	15.N	2.W	14	ALL		640.00
5010	2,3,4,5,19	15.N	2.W	16	ALL		640.00
5011	2,3,4,5,19	15.N	2.W	36	ALL		640.00
5012	2,3,4,5,13,19	15.N	3.W	2	LOTS 1, 2, S2NE4, SE4, MISSOURI RIVERBED AND RELATED ACREAGE		384.25
5013	2,3,4,5,6,19	15.N	3.W	12	S2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5014	2,3,4,5,6,13,19	15.N	3.W	16	LOTS 1, 2, 3, N2, N2SW4, SW4SW4, MISSOURI RIVERBED AND RELATED ACREAGE STATE DOES NOT OWN THE SURFACE IN LOTS 1, 2, 3.	*	609.24
5035	2,3,4,5,19	17.N	5.W	36	ALL		640.00
LIBERTY							
5141	1,2,3,4,5,7	34.N	7.E	24	E2SW4		80.00
5142	1,2,3,4,5,6,7	34.N	7.E	36	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5093	2,3,4,5,19	36.N	5.E	26	NW4SE4		40.00
5131	2,3,4,5,19	36.N	5.E	34	SW4NE4, NW4, S2		520.00
5094	2,3,4,5,19	36.N	5.E	35	E2E2, S2NW4, SW4		400.00
5095	2,3,4,5,19	36.N	5.E	36	ALL		640.00
5132	1,2,3,4,5,6,7	36.N	6.E	16	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5096	1,2,3,4,5,7	36.N	6.E	19	LOT 3, SW4SE4		66.00
5097	1,2,3,4,5,7	36.N	6.E	29	NW4NW4		40.00
5098	1,2,3,4,5,7	36.N	6.E	30	NE4NE4		40.00
5099	1,2,3,4,5,7	36.N	6.E	31	LOTS 2, 3, 4, SW4NE4, SE4NW4, E2SW4, SE4		397.88
5133	1,2,3,4,5,10	36.N	6.E	32	S2		320.00
5134	1,2,3,4,5	36.N	6.E	33	E2NW4, S2		400.00
5135	1,2,3,4,5,7,9	37.N	4.E	1	LOTS 1, 2, N2SE4		163.05
5136	1,2,3,4,5,19	37.N	4.E	36	ALL		640.00
PHILLIPS							
5100	1,2,3,4,5,7,9,11	33.N	34.E	15	S2SE4, NW4SE4, SW4NE4		160.00
5101	1,2,3,4,5,7,9,10,11	33.N	34.E	16	ALL		640.00
PONDERA							
5089	1,2,3,4,5,6,8,11	29.N	5.W	33	SE4SE4 STATE DOES NOT OWN THE SURFACE.	*	40.00
5090	1,2,3,4,5,6,11	29.N	5.W	34	E2SW4, SW4SW4, SE4 STATE DOES NOT OWN THE SURFACE IN THE E2SW4, SW4SW4.	*	280.00
5091	1,2,3,4,5,6,7,8,11	29.N	5.W	35	W2SW4 STATE DOES NOT OWN THE SURFACE.	*	80.00
POWDER RIVER							
5015	2,3,4,5,19	9.S	48.E	4	LOT 6 (SUBJECT TO 70-16-201, MCA)		14.35

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5016	1,2,3,4,5,6,9,14,18	9.S	48.E	8	LOTS 4, 5, 6, 9, N2SE4, SW4SE4 (SUBJECT TO 70-16-201, MCA) STATE DOES NOT OWN THE SURFACE IN LOTS 4, 9, N2SE4, SW4SE4.	*	199.81
5017	2,3,4,5,6,19	9.S	48.E	9	LOTS 1, 3, 4, W2NE4, N2SW4 (SUBJECT TO 70-16-201, MCA) STATE DOES NOT OWN THE SURFACE IN LOTS 1, 3, 4, W2NE4.	*	258.52
ROSEBUD							
5018	1,2,3,4,5,7,10	12.N	33.E	36	LOTS 1 THRU 24, N2		1244.52
TOOLE							
5102	1,2,3,4,5,7,11	31.N	3.E	8	E2E2		160.00
5103	1,2,3,4,5,7,11	31.N	3.E	9	W2W2		160.00
5092	1,2,3,4,5,6,7	32.N	2.E	16	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5118	2,3,4,5,19	37.N	1.E	16	ALL		640.00
5128	1,2,3,4,5,6,7,15	37.N	4.W	23	E2 STATE DOES NOT OWN THE SURFACE.	*	320.00
5129	1,2,3,4,5,6,7	37.N	4.W	24	ALL STATE DOES NOT OWN THE SURFACE.	*	640.00
5130	1,2,3,4,5,7	37.N	4.W	25	ALL		640.00
WIBAUX							
5195	1,2,3,4,5,7,9,10	12.N	58.E	16	W2E2, W2, SE4SE4		520.00
5196	1,2,3,4,5,7,9,10	12.N	58.E	36	ALL		640.00
5197	1,2,3,4,5,7	12.N	59.E	16	ALL		640.00
5198	1,2,3,4,5,7	12.N	59.E	36	ALL		640.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION		ACRES
5202	1,2,3,4,5,7,9	12.N	60.E	8	NW4		160.00
5207	2,3,4,5,19	12.N	60.E	16	ALL		640.00
5210	1,2,3,4,5,7	12.N	60.E	36	ALL		640.00
5215	1,2,3,4,5	12.N	61.E	16	LOTS 1, 2, 3, 4, W2		429.40
5219	1,2,3,4,5,7,8	13.N	59.E	4	LOTS 1, 2, S2NE4		161.04
5220	1,2,3,4,5,7	13.N	59.E	16	ALL		640.00
5221	1,2,3,4,5,7,9	13.N	59.E	36	ALL		640.00
5222	1,2,3,4,5,6,7	13.N	60.E	16	ALL STATE DOES NOT OWN THE SURFACE IN THE NE4.	*	640.00
5225	1,2,3,4,5,6,7,9	13.N	60.E	36	ALL STATE DOES NOT OWN THE SURFACE IN THE E2.	*	640.00
5226	1,2,3,4,5,7,9	14.N	59.E	16	ALL		640.00
5227	1,2,3,4,5,7	14.N	60.E	16	ALL		640.00
5229	1,2,3,4,5,7,9	15.N	59.E	36	NE4, S2		480.00
5230	1,2,3,4,5,7	15.N	60.E	16	ALL		640.00
5231	1,2,3,4,5,7	15.N	60.E	36	ALL		640.00
5232	1,2,3,4,5,7,8,10	16.N	59.E	2	LOTS 1, 2, S2NE4, SE4		326.48
5233	1,2,3,4,5,7	16.N	59.E	12	LOTS 3, 4, S2NW4, SW4		324.31
5234	1,2,3,4,5,7	16.N	59.E	16	ALL		640.00
5235	1,2,3,4,5,7	16.N	59.E	32	LOTS 1, 2, NE4, N2SE4		326.69
5236	1,2,3,4,5,7,9	16.N	60.E	36	ALL		640.00

LESSOR: DEPT OF TRANSPORTATION

WIBAUX

5199	1,2,3,4,5,21	12.N	60.E	1	HIGHWAY TRACT IN N2NE4	4.72

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
5200	1,2,3,4,5,21	12.N	60.E	2	HIGHWAY TRACT IN N2NW4NW4	2.60
5201	1,2,3,4,5,21	12.N	60.E	4	HIGHWAY TRACT IN N2NE4, E2NE4NW4	8.58
5203	1,2,3,4,5,21	12.N	60.E	10	HIGHWAY TRACT IN E2SE4	2.42
5204	1,2,3,4,5,21	12.N	60.E	11	HIGHWAY TRACT IN W2SW4	2.42
5205	1,2,3,4,5,21	12.N	60.E	14	HIGHWAY TRACT IN W2NW4, W2SW4	4.96
5206	1,2,3,4,5,21	12.N	60.E	15	HIGHWAY TRACT IN E2E2	4.55
5208	1,2,3,4,5,21	12.N	60.E	22	HIGHWAY TRACT IN E2SE4, E2NE4	7.49
5209	1,2,3,4,5,21	12.N	60.E	23	HIGHWAY TRACT IN W2W2	4.93
5211	1,2,3,4,5,21	12.N	61.E	5	HIGHWAY TRACT IN W2W2	9.38
5212	1,2,3,4,5,21	12.N	61.E	6	HIGHWAY TRACTS IN LOTS 2, 3, 4, SE4SE4	11.18
5213	1,2,3,4,5,21	12.N	61.E	7	HIGHWAY TRACTS IN E2	6.87
5214	1,2,3,4,5,21	12.N	61.E	8	HIGHWAY TRACTS IN W2	13.28
5216	1,2,3,4,5,21	12.N	61.E	17	HIGHWAY TRACTS IN W2	13.22
5217	1,2,3,4,5,21	12.N	61.E	19	HIGHWAY TRACTS IN E2	10.14
5218	1,2,3,4,5,21	12.N	61.E	20	HIGHWAY TRACT IN SW4	4.04
5223	1,2,3,4,5,21	13.N	60.E	31	HIGHWAY TRACT IN S2S2	8.58
5224	1,2,3,4,5,21	13.N	60.E	35	HIGHWAY TRACT IN S2SW4	2.92

STIPULATIONS

1. Lessee shall notify and obtain approval from the Department's Trust Land Management Division (TLMD) prior to constructing well pads, roads, power lines, and related facilities that may require surface disturbance on the tract. Lessee shall comply with any mitigation measures stipulated in TLMD's approval.

2. Prior to the drilling of any well, lessee shall send one copy of the well prognosis, including Form 22 "Application for Permit" to the Department's Trust Land Management Division (TLMD). After a well is drilled and completed, lessee shall send one copy of all logs run, Form 4A "Completion Report", and geologic report to TLMD. A copy of Form 2 "Sundry Notice and Report of Wells" or other appropriate Board of Oil and Gas Conservation form shall be sent to TLMD whenever any subsequent change in well status or operator is intended or has occurred. Lessee shall also notify and obtain approval from the TLMD prior to plugging a well on the lease premises.

3. The TLMD will complete an initial review for cultural resources and, where applicable, paleontological resources of the area intended for disturbance and may require a resources inventory. Based on the results of the inventory, the TLMD may restrict surface activity for the purpose of protecting significant resources located on the lease premises.

4. The lessee shall be responsible for controlling any noxious weeds introduced by lessee's activity on State-owned land and shall prevent or eradicate the spread of those noxious weeds onto land adjoining the lease premises.

5. The definitions of "oil" and "gas" provided in 82-1-111, MCA, do not apply to this lease for royalty calculation purposes.

6. Lessee must contact the owner of the surface in writing at least 30 days prior to any surface activity. A copy of the correspondence shall be sent to TLMD.

7. No activity shall be allowed within 100 feet of any perennial or seasonal stream, pond, lake, prairie potholes, wetland, spring, reservoir, well, aqueduct, irrigation ditch, canal, or related facilities without prior approval of the TLMD.

8. The lessee is responsible to pay for all damages, including penalties and charges assessed by the USDA-CFSA on CRP lands, as a result of drilling and production on the tract. All damages will be assessed by and paid directly to the TLMD.

9. Wooded areas on this tract will be avoided unless otherwise authorized by the TLMD.

STIPULATIONS

10. Due to unstable soil conditions on this tract and/or steep topography, surface use may be restricted or denied. Seismic activity may be restricted to poltershots.

11. Wildlife species of concern have been identified on or near this tract. A survey in areas of proposed activity may be required prior to disturbance. Identified species will be avoided, unless otherwise authorized by the TLMD. Additional mitigation measures may also be required.

12. Plant species of concern have been identified on or near this tract. A vegetation survey in areas of proposed activity will be required prior to disturbance. Identified rare plant species will be avoided, unless otherwise authorized by the TLMD.

13. This tract contains navigable river beds. No surface occupancy is allowed within the bed of the navigable river, abandoned channels, or on islands and accretions. In addition, upon completion of a successful well, where river title is disputed, the lessee will file an interpleader action under Rule 22, M.R.Civ.P. in the Montana District Court in which the leased lands are located for all acreage within the lease in which the title is disputed. The lessee shall name all potential royalty claimants as defendants.

14. Any activity within 1/8 mile of the river or lake/reservoir on or adjacent to this tract must be approved in writing by the TLMD prior to commencement. No surface occupancy is allowed within the bed of the river, abandoned channels, the bed of the lake/reservoir, or on islands and accretions associated with the river or lake/reservoir.

15. This tract has an existing well and related facilities. The lessee has 45 days from the effective date of this lease to determine whether or not to assume responsibility from the former lessee for the well and any existing facilities. The lessee may not enter the well until a change of operator has been filed with, and approved by, the Board of Oil and Gas Conservation. This well must be returned to commercial production or plugged and the wellsite reclaimed within 18 months from the effective date of this lease.

16. To protect wildlife during periods important to their survival, surface occupancy or other activity shall be restricted from December 1 through April 15 of each year unless otherwise authorized in writing by the TLMD.

17. To protect wildlife during periods important to their survival, surface occupancy or other activity shall be restricted from May 1 through June 30 of each year unless otherwise authorized in writing by the TLMD.

18. A critical weed problem exists on this tract. Additional mitigation measures will be required to prevent further spread of noxious weeds. The Department may require such measures as power washing of vehicles, car pooling, timing restrictions for seismic, etc. to facilitate this prevention.

19. This lease includes areas that may be environmentally sensitive. Therefore, if the lessee intends to conduct any activities on the lease premises, the lessee shall submit to TLMD one copy of an Operating Plan or Amendment to an existing Operating Plan, describing in detail the proposed activities. No activities shall occur on the tract until the Operating Plan or Amendments have been approved in writing by the Director of the Department. TLMD shall review the Operating Plan or Amendment and notify the lessee if the Plan or Amendment is approved or disapproved.

After an opportunity for an informal hearing with the lessee, surface activity may be denied or restricted on all or portions of any tract if the Director determines in writing that the proposed surface activity will be detrimental to trust resources and therefore not in the best interests of the trust.

20. This lease is located within or adjacent to the Sleeping Giant and Sheep Creek Wilderness Study Area, the Beartooth State Wildlife Management Area, and/or the Gates of the Mountains Wilderness and includes areas that are environmentally sensitive. Therefore, except as otherwise provided below, the lessee shall not conduct any surface operations on the lease premises. If the lessee determines that surface operation on the lease premises may be required, the lessee shall submit a proposed Operating Plan or Amendment to an existing Operating Plan to the State Board of Land Commissioners describing in detail the proposed operations. No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board. In determining whether to approve the proposed Operating Plan or Amendment, the following provisions shall apply:

(1) If the lessee proposes an activity that does not entail any significant surface disturbance, the Board may approve the same after completion of the appropriate environmental review in accordance with the Montana Environmental Policy Act (MEPA) and an opportunity for public comment on the proposed activity has been provided.

(2) Before the Board approves any proposed activity on the lease premises that entails a significant surface disturbance, an environmental impact statement (EIS) shall be completed in accordance with MEPA. The EIS shall analyze the potential impacts of alternative and future potential levels of oil and gas development and extraction on an ecosystem scale. The analysis shall consider all relevant information, which may include, but is not limited to, existing environmental reviews and management plans. Public involvement in the environmental review process shall be actively solicited by the preparer of the environmental review document and shall include, at minimum, adequately noticed public meetings in at least two communities including Great Falls and Helena.

(3) The Board may refuse to approve any proposed surface operations if it determines that they do not constitute the best use of trust resources or are not in the best interest of the State of Montana.

21. No surface occupancy shall be allowed on any portion of this tract which is indicated as right-of-way on the official highway plans on file at the Department of Transportation in Helena, Montana without prior written approval from TLMD.

* Part or all of the tract is not state-owned surface.

Sight drafts will not be accepted. The State Board of Land Commissioners reserves the right to reject any and all bids. All payments are due within ten days after date of sale.

An Environmental Assessment is available upon request from the Department of Natural Resources and Conservation, Trust Land Management Division, P.O. Box 201601, Helena, MT 59620-1601.

Individuals with disabilities needing assistance or special services, please call Julie David at (406) 444-2074 at least 1 week prior to the sale.

STATE BOARD OF LAND COMMISSIONERS

APPENDIX B: Example Stipulations for Oil and Gas Leasing.

Stipulations marked with (*) are placed on all leases.

Notification

A-1. Lessee shall notify and obtain approval from the Department's Trust Land Management Division (TLMD) prior to constructing well pads, roads, power lines, and related facilities that may require surface disturbance on the tract. Lessee shall comply with any mitigation measures stipulated in TLMD's approval.

*A-2. Prior to the drilling of any well, lessee shall send one copy of the well prognosis, including Form 22 "Application for Permit" to the Department's Trust Land Management Division (TLMD). After a well is drilled and completed, lessee shall send one copy of all logs run, Form 4A "Completion Report", and geologic report to TLMD. A copy of Form 2 "Sundry Notice and Report of Wells" or other appropriate Board of Oil and Gas Conservation form shall be sent to TLMD whenever any subsequent change in well status or operator, is intended or has occurred. Lessee shall also notify and obtain approval from the TLMD prior to plugging a well on the lease premises.

Cultural

*B. The TLMD will complete an initial review for cultural resources and, where applicable, paleontological resources of the area intended for disturbance and may require a resources inventory. Based on the results of the inventory, the TLMD may restrict surface activity for the purpose of protecting significant resources located on the lease premises.

Weeds

*C. The lessee shall be responsible for controlling any noxious weeds introduced by Lessee's activity on State-owned land and shall prevent or eradicate the spread of those noxious weeds onto land adjoining the lease premises.

Royalty Calculation

*D. The definitions of "oil" and "gas" provided in 82-1-111, MCA, do not apply to this lease for royalty calculation purposes.

CRP Land and Damages

E. The lessee is responsible to pay for all damages, including penalties and charges assessed by the USDA-CFSA on CRP lands, as a result of drilling and production on the tract. All damages will be assessed by and paid directly to the TLMD.

Sensitive Areas

F-1. This lease includes areas that may be environmentally sensitive. Therefore, if the lessee intends to conduct any activities on the lease premises, the lessee shall submit to TLMD one copy of an Operating Plan or Amendment to an existing Operating Plan, describing in detail the proposed activities. No activities shall occur on the tract until the Operating Plan or Amendments have been approved in writing by the Director of the Department. TLMD shall review the Operating Plan or Amendment and notify the lessee if the Plan or Amendment is approved or disapproved.

After an opportunity for an informal hearing with the lessee, surface activity may be denied or restricted on all or portions of any tract if the Director determines in writing that the proposed surface activity will be detrimental to trust resources and therefore not in the best interests of the trust.

F-2. This lease is located near the Rocky Mountain Front and includes areas that are environmentally sensitive. Therefore, except as otherwise provided below, the lessee shall not conduct any surface operations on the lease premises. If the lessee determines that surface operation on the lease premises may be required, the lessee shall submit a proposed Operating Plan or Amendment to an existing Operating Plan to the State Board of Land Commissioners describing in detail the proposed operations. No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board. In determining whether to approve the proposed Operating Plan or Amendment, the following provisions shall apply:

1) If the lessee proposes an activity that does not entail any significant surface disturbance, the Board may approve the same after completion of the appropriate environmental review in accordance with the Montana Environmental Policy Act (MEPA) and an opportunity for public comment on the proposed activity has been provided.

2) Before the Board approves any proposed activity on the lease premises that entails a significant surface disturbance, an environmental impact statement (EIS) shall be completed in accordance with MEPA. The EIS shall analyze the potential impacts of alternative and future potential levels of oil and gas development and extraction on an ecosystem scale as the ecosystem is defined by the "Limits of Acceptable Change--Bob Marshall Wilderness Complex" adopted by the Montana Department of Fish, Wildlife & Parks in December 1991. The analysis shall consider all relevant information, which may include, but is not limited to, existing environmental reviews and management plans. Public involvement in the environmental review process shall be actively solicited by the preparer of the environmental review document and shall include, at minimum, adequately noticed public meetings in at least three communities including Great Falls and Helena.

3) The proposed surface activity shall adhere to the "Interagency Rocky Mountain Front, Wildlife Monitoring/Evaluation Program, Management Guidelines for Selected Species" adopted by the Montana Department of Fish, Wildlife & Parks in September 1987, or any successor guidelines thereto.

4) The Board may refuse to approve any proposed surface operations if it determines that they do not constitute the best use of trust resources or are not in the best interest of the State of Montana.

F-3. This lease is located within or adjacent to the Sleeping Giant and Sheep Creek Wilderness Study Area, the Beartooth State Wildlife Management Area, and/or the Gates of the Mountains Wilderness and includes areas that are environmentally sensitive. Therefore, except as otherwise provided below, the lessee shall not conduct any surface operations on the lease premises. If the lessee determines that surface operation on the lease premises may be required, the lessee shall submit a proposed Operating Plan or Amendment to an existing Operating Plan to the State Board of Land Commissioners describing in detail the proposed operations. No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board. In determining whether to approve the proposed Operating Plan or Amendment, the following provisions shall apply:

1) If the lessee proposes an activity that does not entail any significant surface disturbance, the Board may approve the same after completion of the appropriate environmental review in accordance with the Montana Environmental Policy Act (MEPA) and an opportunity for public comment on the proposed activity has been provided.

2) Before the Board approves any proposed activity on the lease premises that entails a significant surface disturbance, an environmental impact statement (EIS) shall be completed in accordance with MEPA. The EIS shall analyze the potential impacts of alternative and future potential levels of oil and gas development and extraction on an ecosystem scale. The analysis shall consider all relevant information, which may include, but is not limited to, existing environmental reviews and management plans. Public involvement in the environmental review process shall be actively solicited by the preparer of the environmental review document and shall include, at minimum, adequately noticed public meetings in at least two communities including Great Falls and Helena.

3) The Board may refuse to approve any proposed surface operations if it determines that they do not constitute the best use of trust resources or are not in the best interest of the State of Montana.

Navigable Rivers

G. This tract contains navigable river beds. No surface occupancy is allowed within the bed of the navigable river, abandoned channels, or on islands and accretions. In addition, upon completion of a successful well, where river title is disputed, the lessee will file an interpleader action under Rule 22, M.R.Civ.P. in the Montana District Court in which the leased lands are located for all acreage within the lease in which the title is disputed. The lessee shall name all potential royalty claimants as defendants.

Surface not State Owned

H. Lessee must contact the owner of the surface in writing at least 30 days prior to any surface activity. A copy of the correspondence shall be sent to TLMD.

No Surface Occupancy

I. No surface occupancy shall be allowed on this tract unless otherwise approved in writing by the Director of DNRC.

J. No surface occupancy shall be allowed on any portion of this tract which is indicated as right-of-way on the official highway plans on file at the Department of Transportation in Helena, Montana without prior written approval from TLMD.

Existing Production Restrictions

K. Lessee will need to make settlement for the value of the equipment with previous lessee. A copy of this settlement will be sent to the TLMD for their records.

Existing Facilities

L-1. This tract has an existing well and related facilities. The lessee has 45 days from the effective date of this lease to determine whether or not to assume responsibility from the former lessee for the well and any existing facilities. The lessee may not enter the well until a change of operator has been filed with, and approved by, the Board of Oil and Gas Conservation.

L-2. This tract has an existing well and related facilities. The lessee has 45 days from the effective date of this lease to determine whether or not to assume responsibility from the former lessee for the well and any existing

facilities. The lessee may not enter the well until a change of operator has been filed with, and approved by, the Board of Oil and Gas Conservation. This well must be returned to commercial production or plugged and the wellsite reclaimed within 18 months from the effective date of this lease.

Drainage Occurring

M. It is the opinion of the TLMD that drainage is occurring on the land described in this lease and that if a well is not drilled within two years after this lease is issued the department will consider cancellation of the lease for failure to drill an offset well.

Forested Tracts - Timber

N. Prior to the cutting or removal of timber on these tracts for exploration or development related activities, the lessee shall acquire the approval of the appropriate TLMD area office.

Wildlife Restrictions

O. To protect wildlife during periods important to their survival, surface occupancy or other activity shall be restricted from March 15 through July 15 of each year unless otherwise authorized in writing by the TLMD.

P-1. Potential wildlife conflicts have been identified for this tract. The TLMD will contact the Montana Department of Fish, Wildlife, and Parks office in the area for advice on alleviating any possible conflicts caused by lessee's proposed activities. Additional mitigation measures may be required.

P-2. Potential wildlife conflicts have been identified for this tract. The TLMD will contact the U.S. Fish and Wildlife Service office in the area for advice on alleviating any possible conflicts caused by lessee's proposed activities. Additional mitigation measures may be required.

Q. Wildlife species of concern have been identified on or near this tract. A survey in areas of proposed activity may be required prior to disturbance. Identified species will be avoided, unless otherwise authorized by the TLMD. Additional mitigation measures may also be required.

Miscellaneous Restrictions

R. Any activity within 1/8 mile of the river or lake/reservoir on or adjacent to this tract must be approved in writing by the TLMD prior to commencement. No surface occupancy is allowed within the bed of the river, abandoned channels, the bed of the lake/reservoir, or on islands and accretions associated with the river or lake/reservoir.

S. No activity shall be allowed within 100 feet of any perennial or seasonal stream, pond, lake, prairie pothole, wetland, spring, reservoir, well, aqueduct, irrigation ditch, canal, or related facilities without prior approval of the TLMD.

T. Due to unstable soil conditions on this tract and/or steep topography, surface use may be restricted or denied. Seismic activity may be restricted to poltershots.

U. Due to existing surface uses (such as center pivots, wheel lines, etc.) development on this tract may be restricted.

V. Plant species of concern have been identified on or near this tract. A vegetation survey in areas of proposed activity will be required prior to disturbance. Identified rare plant species will be avoided, unless otherwise authorized by the TLMD.

W. A critical weed problem exists on this tract. Additional mitigation measures will be required to prevent further spread of noxious weeds. The department may require such measures as power washing of vehicles, car pooling, timing restrictions for seismic, etc. to facilitate this prevention.

X. This tract contains biological weed-control sites which must be avoided unless otherwise authorized by TLMD.

Y. No surface occupancy of the cemetery site is permitted without written approval of TLMD.

Z. Wooded areas on this tract will be avoided unless otherwise authorized by the TLMD.

AA. No surface occupancy of the school area and/or related facilities is permitted without written approval of TLMD.

BB. Lease contains a well certified for domestic use by the Board of Oil and Gas Commission (BOGC). Therefore, BOGC does not consider this well to be subject to well spacing regulations.

CC. This lease is issued subject to a prior existing State of Montana coal lease. Lessee's right to search, develop, and produce oil and gas may be restricted by such prior existing lease rights.

DD. A gas storage unit exists on this tract. TLMD will solicit comments from gas storage operator (if other than lessee) if drilling through the gas storage reservoir is proposed, and TLMD may include reasonable protective stipulations in approving Lessee's operating plan. As part of its regulatory review, the BOGC may also require protective measures to ensure no impact to the gas storage reservoir.

EE. No surface occupancy of radio tower sites or related facilities is permitted without written approval of TLMD.

APPENDIX C: Agency Comments Received Before Deadline

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

TRUST LAND MANAGEMENT DIVISION
MARC RACICOT, GOVERNOR
1625 ELEVENTH AVENUE
STATE OF MONTANA
DIRECTOR'S OFFICE (406) 444-2074
TELEFAX NUMBER (406) 444-2684
PO BOX 201601
HELENA, MONTANA 59620-1601

December 29, 2000

MEMORANDUM

TO: Patrick Rennie, Archaeologist, Ag. & Grazing Management Bureau

FROM: Teresa Kinley, Hydrologist/Geologist, Minerals Management Bureau Teresa Kinley

RE: March 6, 2001 State of Montana Oil and Gas Lease Sale

Please review the attached list of tracts for the upcoming oil and gas lease sale for cultural areas of concern. Prior to leasing, the Department complete an environmental assessment of the properties. One of the purposes of this assessment is to mitigate potential cultural concerns that could be affected by oil and gas exploration by adding stipulations to the leases. As usual the standard cultural stipulation will be placed on all tracts.

Let me know if there are any concerns which may require other stipulations on the leases. If you have any questions, please ask me or Monte Mason. Please return your comments by January 24, 2001.

Thank you for your help.

Attachment

Teresa:
Looks good. Just add standard archaeological stipulation to each lease

JAN - 3 2001

To: Teresa Kinley, Hydrologist/Geologist, MMB

From: BS Barny D. Smith, Lewistown Unit Manager, TLMD

RE: March 6, 2001 Oil/Gas Lease Sale
Lewistown Unit Comments
Chouteau County

RECEIVED
JAN 04 2001
D.N.R.C.

5036 Siefort Reservoir (Sub-surface only)
There are two small reservoirs in the E1/2
Grazing(?) Ag (?) CRP (?) Cultural (?)
The stream, reservoir, etc. buffer stipulation will be placed on this tract's lease.

5037 Seifort Reservoir (Sub-surface only)
Grazing(?) Ag (?) CRP (?) Cultural (?)

5038 Seifort Reservoir (Sub-surface only)
There is a tributary coulee to Chip Creek
A home site in the SE1/4SW1/4
Grazing (?) Ag (?) CRP (?) Cultural (?)
Home covered by setbacks in lease. The stream, etc. buffer stipulation will be placed on this tract's lease.

5039 Eskay NW Pigtail Coulee
State Lease #2395
All grazing
Several teepee rings along PW Ridge
Sandstone Coulee goes through NW1/4 (Ephemeral)
The cultural resources stipulation is placed on all leases.
The stream, etc. buffer stipulation will be placed on this tract's lease.

5040 Eskay NW
State Lease #9398
All grazing
Birch Creek runs throughout, NW to SE
The stream, etc buffer stipulation will be placed on this tract's lease.

5041 Eskay NE Chase Hill
State Lease #1538
44.4 ac. of Ag. Small grain
330.3 ac. of Grazing
267.82 ac. of Unsuitable
Sand Creek runs through E1/2
Birch Creek in SW1/4
Home site on SW1/4 South boundary line.
Homes covered by setbacks in the lease.
The stream, etc buffer stipulation will be placed on this tract's lease.

5042 Studhorse Butte Ryan Butte
State Lease #8185
All grazing

5043 Studhorse Butte
State Lease #8185
All grazing
Small reservoir in SE1/4NW1/4 The stream/buffer (reservoir, etc.) stipulation will be added to this tract's lease

5044 Studhorse Butte
State Lease #8185
All grazing

5045 Studhorse Butte
State Lease #8185
All grazing
Teepee rings in center of section The cultural resources stipulation is placed on all leases.

5046 Studhorse Butte
State Lease #8182
All grazing
A P/A gas well #63 in NE1/4

5047 Studhorse Butte (Sub-surface only) The stream, etc. buffer stipulation will be
Alkali Coulee (Ephemeral) in SW1/4 added to this tract's lease.

5048 Studhorse Butte (Sub-surface only SE1/4)
State Lease #8182 (N1/2)
All grazing
Alkali Coulee (Ephemeral) The stream, etc. buffer stipulation will be
State Lease #2723 (SW1/4) added to this tract's lease.
113.1 ac. grazing
39.8 ac. Ag. Small grain
7.1 ac. Unsuitable (Hwy R/W)

5049 Studhorse Butte
State Lease #8182
All grazing The stream, etc. buffer stipulation will be
Alkali Coulee (Ephemeral) N1/2 added to this tract's lease.

5050 Studhorse Butte
State Lease #8182
All grazing
Springs & Alkali Coulee head waters (N1/2) The stream, etc. buffer stipulation will be added to this tract's lease.

5051 Studhorse Butte
State Lease #7637
All grazing
Teepee rings in N1/2 The cultural resources stipulation is placed on all leases.

5052 Studhorse Butte Ryan Butte
State Lease #7637
All grazing

5053 Studhorse Butte Ryan Butte (Sub-surface only S1/2, NE1/4)
State Lease #7637 (NW1/4)
All grazing
A small reservoir in E1/2NE1/4 The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5054 Studhorse Butte
State lease #7637
All grazing
A small reservoir in SE1/4NW1/4 The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5055 Studhorse Butte
State Lease #7637
All grazing

5056 Eagleton NW Studhorse Butte (Sub-surface only) The stream, pothole, etc. buffer stipulation will be added to this tract's lease. For int. streams
Mud Lake Pot hole in E1/2SE1/4
↳Not on tract

5057 Eagleton NW Siefort Reservoir Studhorse Butte Ryan Butte (Sub-surface only)
Tributary to Eagle Creek (Ephemeral) E1/2 The stream, etc. buffer stipulation will be added to this tract's lease.

5058 Eagleton NW Siefort Reservoir
State Lease #8187
635.44 ac. grazing
1.6 ac. Mud Lake Pot hole The 1/8 th-mile lake/reservoir buffer stipulation will be placed on this tract's lease For Mud Lake pothole Lake.
The stream, lake, pothole, etc. buffer stipulation will be added to this tract's lease, For the intermitten streams.

5059 Eagleton NW (Sub-surface only Lot 1, W1/2NE1/4, SE1/4NE1/4, NW1/4)
State Lease #8187 (S1/2) (Mud ~~Lake~~ pothole Lake) ~~adjoins lot 1, so~~ The stream, lake, pothole etc. buffer stipulation will be added to this tract's lease For intermittent streams.
307.31 ac. grazing
12.69 ac. road R/W
The 1/8th-mile lake/reservoir buffer stipulation will be placed on this tract For

5060 Eagleton NW
State Lease #2731
All grazing
Small reservoir in NW1/4NE1/4 The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.
P/A gas well State # 1-35 NW1/4NE1/4

5061 Eagleton NW Siefort Reservoir
State Lease #8187
All grazing

5062 Ryan Butte
State Lease #8187
All grazing

5063 Ryan Butte
State Lease #8186
All grazing

5064 Ryan Butte (Sub-surface only)
County road R/W

5065 Ryan Butte
State lease #8186
All grazing
McNamara Butte NW1/4
Small reservoir in SW1/4SW1/4 The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5066 Ryan Butte (Sub-surface only SE1/4)
State Lease #8186
All grazing
Stream (Ephemeral) in W1/2NW1/4 The stream, etc. buffer stipulation will be added to this tract's lease.

5067 Ryan Butte (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5068 Ryan Butte
State Lease #5733
102.6 ac. Ag. Small grain
17.4 ac. Unsuitable (Pot holes) The stream, potholes, wetlands, etc. buffer stipulation will be added to this tracts lease.

5069 Ryan Butte (Sub-surface only)
Eagle Creek runs through the NW1/4 The stream, buffer stipulation will be added to this tract's lease. etc.
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5070 Ryan Butte (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5071 Ryan Butte (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5072 Ryan Butte Siefort Reservoir (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5073 Ryan Butte Siefort Reservoir (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5074 Ryan Butte Siefort Reservoir (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5075 Ryan Butte Siefort Reservoir
State Lease #5733
112.5 ac. Ag. Small grain
7.5 ac. Unsuitable (Dog Creek Breaks) The stream, wetlands, etc. buffer stipulation will be utilized on this tract.

5076 Siefort Reservoir (Sub-surface only)
Tributary to Siefort Reservoir - The stream, reservoir, etc. buffer stipulation will be placed on this tract's lease.
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5077 Siefort Reservoir (Sub-surface only NW1/4,NW1/4SW1/4)
State Lease #2731 (NE1/4SW1/4)
All grazing
Dog Creek runs through The stream, etc. buffer stipulation will be placed on this tracts lease

5078 Siefort Reservoir (Sub-surface only)
Eagle Creek (NW1/4SE1/4) The stream, etc. buffer stipulation will be
Grazing (?) Ag. (?) CRP (?) Cultural (?) added to this tract's lease.

5079 Siefort Reservoir (Sub-surface only)
Grazing (?) Ag. (?) CRP (?) Cultural (?)

5080 Siefort Reservoir Eskay NW
State Lease #242
All grazing
Small reservoir in SE1/4NE1/4 The stream, reservoir, etc. 100-Ft. buffer stipulation will be added to this tracts lease For intermittent streams. The 1/8th mile buffer stipulation For lakes/reserv. will be added For the beginning of the perennial lake/reservoir near the east border of the section.

5081 Eskay NW
State Lease #242
571 ac. grazing
69 ac. of a large reservoir & H2O well (N1/2) The stream, well, etc 100-Ft buffer stipulation will be added to this tracts lease as well as the 1/8th mile river, lake/reservoir buffer stipulation For the large reservoir.
Teepee rings in NW1/4 & S1/2S1/2

Teresa,

The cultural resources stipulation is placed on all MT oil and gas leases.

There are no CRP or marketable timber resources on these state tracts. (There may be CRP on some of the private surface acres.) The soil stability is good throughout most of the tracts. This whole area has fair upland & big game with good wildlife habitat.

There are no special concerns except for streams and teepee ring areas. These should be avoided.

TRUST LAND MGT. DIVISION

From: SLO - Kendall Date: 12-29-00

TO:

Div. Administrator: _____

Ag. & Grazing: _____

_____

Forest Mgt.: _____

_____

Minerals Mgt.: _____

Teresa Kinley

Special Uses: _____

_____

Notes: _____

_____

_____

_____

SLO OIL & GAS LEASE APPLICATIONS

Sale Date: 3-6-01

County: Carbon

App. No.: 5137

Legal: 36- 5 S. - 21 E. (#3964)

CRP:

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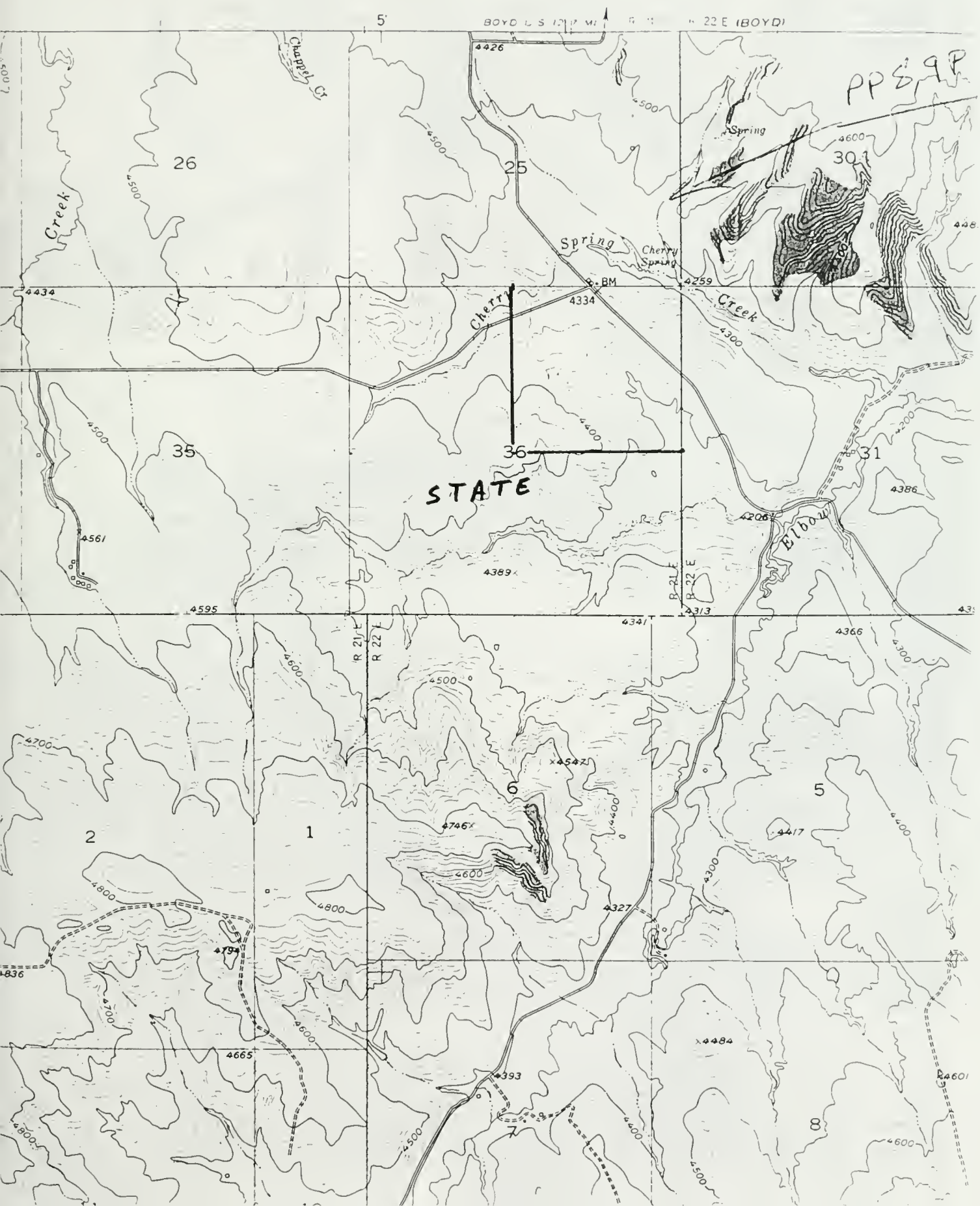
DNRC

Wildlife:	Deer, Game Birds, Predators, Raptors, Songbirds. The wildlife stipulation restricting surface occupancy is applied to this tract due to FWP comments on mule and whitetail deer winter range From Dec 1 to April 15
Cultural:	None Known.
Surface Water:	Intermittent drainages. The stream, etc. buffer stipulation will be placed on this tracts lease.
Soils:	Varies - Mostly deep & well drained. Some Thin & rocky. The steep topography/unstable soils stipulation will be placed on this tracts lease due to topography along drainage.
Timber:	No.
Improvements:	County roads, fences, cropland.
Other:	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PP&RR

SLO OIL & GAS LEASE APPLICATIONS

Sale Date: 3-6-01

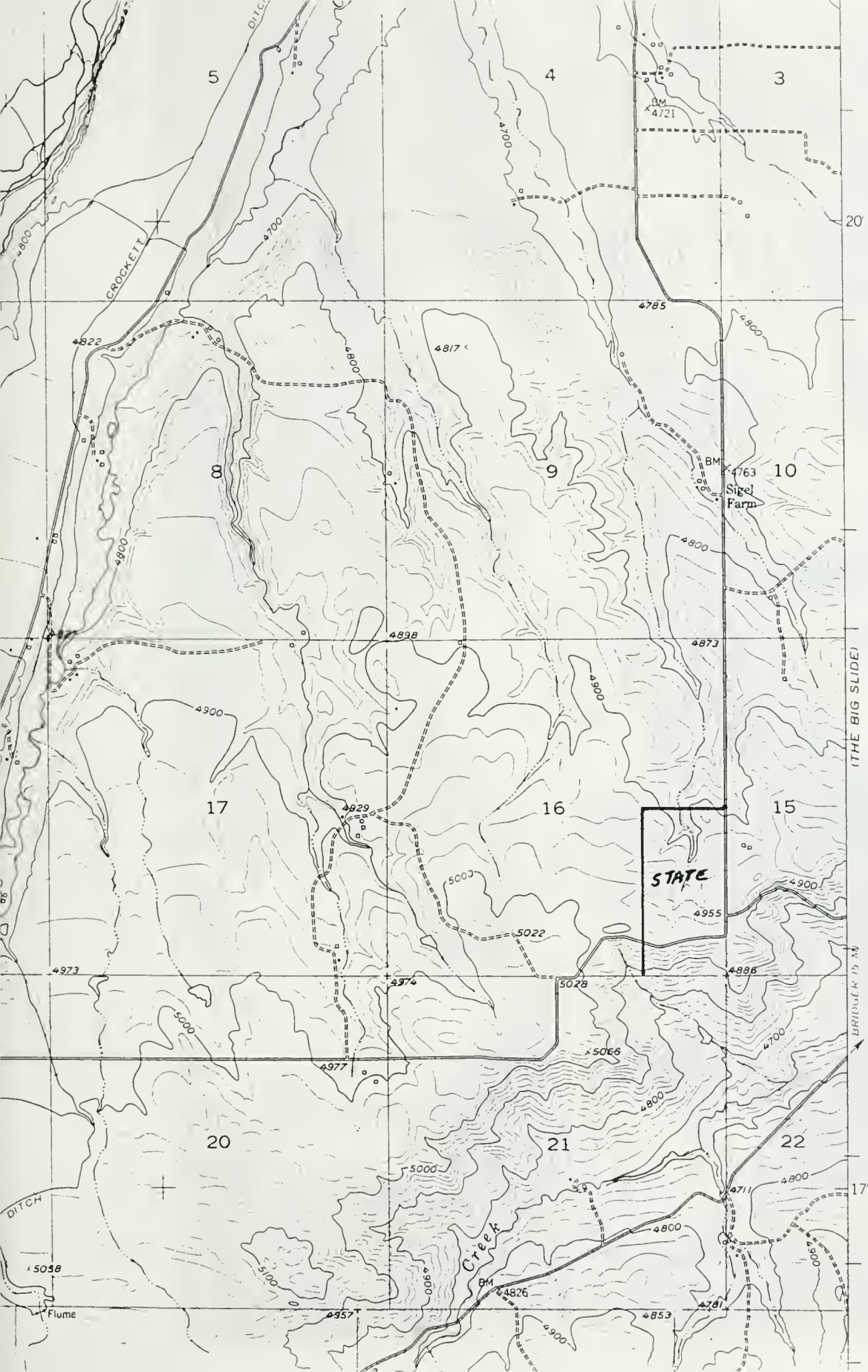
County: Carbon

App. No.: 5138

Legal: 16- 6 S.- 21 E. (#2230)

CRP: None on State

Wildlife:	Deer, Game Birds, Predators, Raptors, Songbirds
Cultural:	None Known
Surface Water:	Tributaries to Rock Creek. Stockwater res. on pvt. The stream, reservoir, etc. buffer stipulation will be placed on this tract's lease
Soils:	Varies, but mostly deep, well drained. Ag. land.
Timber:	No
Improvements:	Lots on this section. Ag. land, fences, roads, water development.
Other:	Care for improvements is biggest concern - comment noted. Damages covered in the lease. (Sec. 28)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SLO OIL & GAS LEASE APPLICATIONS

Sale Date: 3-6-01

County: Carbon

App. No.: 5139

Legal: 16- 6 S. - 22 E, (# 1077)

CRP: No

Wildlife:	Elk, Mule Deer, predators, raptors, songbirds. * The wildlife stipulation restricting surface occupancy From May 1 thru June 30 is applied to this tract due to comment noted below.
Cultural:	None Known.
Surface Water:	Intermittent drainages with springs. The stream, etc. buffer stipulation will be placed on this tract's lease.
Soils:	Varies - mostly thin, rocky. Some moderately well-drained. The unstable soils/steep topography stipulation will be added to this tract's lease.
Timber:	Pine & Juniper - non-commercial. The avoid wooded areas stipulation will be placed on this tract's lease.
Improvements:	1 mile fence on North line.
Other:	* Recommend no activity in May & June for elk calving.

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SLO OIL & GAS LEASE APPLICATIONS

Sale Date: 3-6-01

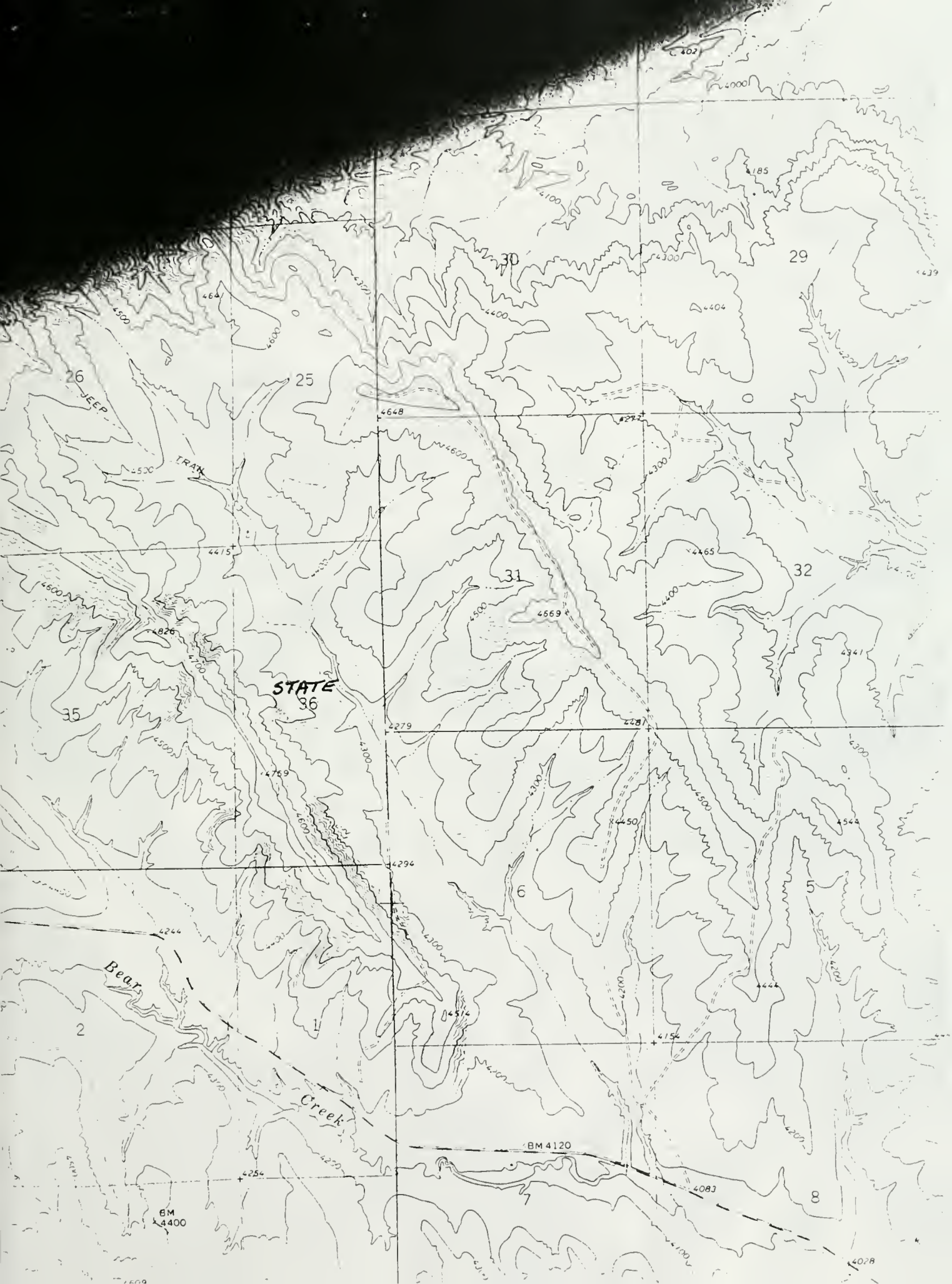
County: Carbon

App. No.: 5140

Legal: 36 - 7 S. - 21 E. (#9752)

CRP: No

Wildlife:	Mule Deer, Predators, Raptors, Songbirds The wildlife stipulation restricting surface occupancy From Dec 1 to April 15 is applied to this tract due to FWP comments on critical mule deer winter range on this tract.
Cultural:	None Known
Surface Water:	Intermittent drainages The stream, etc. buffer stipulation will be added to this tract's lease.
Soils:	Badlands . . . steep, thin, erosive. The steep topography/unstable soils stipulation will be added to this tract's lease.
Timber:	No However, the topo. map & the aerial photo show trees. The avoid wooded area stip. will be utilized on this tract.
Improvements:	None documented.
Other:	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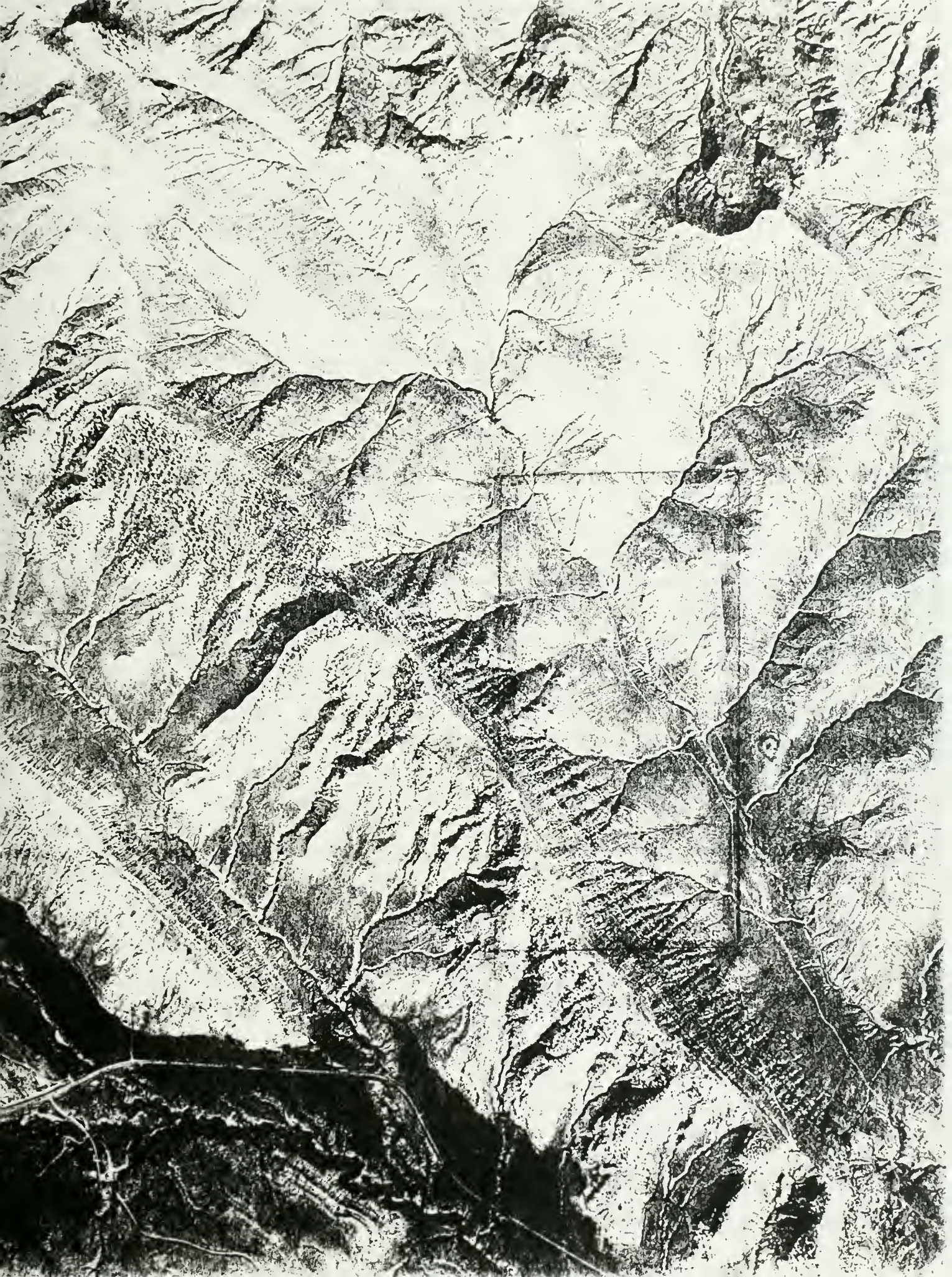

SLO OIL & GAS LEASE APPLICATIONS
Sale Date: 3-6-01

County: Carbon

App. No.: 5034

Legal: 16-8 S.-24 E. (# 2579)

CRP: No

Wildlife:	Mule Deer, Predators, Raptors, Songbirds
Cultural:	None Known
Surface Water:	Intermittent drainages, small livestock res. The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.
Soils:	Thin & Rocky. Very Poor site. The unstable soils / steep topography stipulation will be added to this tract's lease.
Timber:	None
Improvements:	State Highway, BN Railroad, Drift Fence
Other:	This tract contains ~~the~~ site For Gray's Milkvetch (G4, S2, BLM watch). The vegetation survey stipulation is placed on this tract For this plant and For obscure evening primrose (G4, S2) and Yellow bee plant (G5, S1)

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NORTHERN
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DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION
NORTHEASTERN LAND OFFICE

STATE OF MONTANA

(406) 228-2430 Telephone
(406) 228-2439 FAX

GLASGOW UNIT OFFICE
PO BOX 1007
224 6 STREET SOUTH
GLASGOW, MONTANA 59230-1007

January 5, 2001

MEMORANDUM

TO: Teresa Kinley, Hydrologist/Geologist, Minerals Management Bureau
Craig Roberts, Area Manager, Northeastern Land Office

FR: Randy Dirkson, Land Use Specialist, Glasgow Unit Office

RE: March 6,2001 State of Montana Oil and Gas Lease Sale

Attached is the information on the various tracts of State land for the March 6, 2001 State of Montana Oil and Gas Lease Sale. The Glasgow Unit Office has no site-specific stipulations for these tracts of State land.

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12-28-00

STATE OF MONTANA
OIL & GAS LEASE SALE - MARCH 6, 2001

HYDROLOGIST'S REPORT

APP#	TOPO MAP	TWP	RGE	SEC	DESCRIPTION		ACRES

DANIELS (NELO-G, FWP-6)

5119 Peerless 4 NE — 34.N 47.E 22 SW4, NE4, N2NW4 — 400.00
This tract has native rangeland and conservation reserve program acreage. There is an undeveloped spring locate on the N2NE4. Tract has wildlife habitat and upland bird habitat resources.
The CRP stipulation and the stream, spring, etc. buffer stipulation will be added to this tract's lease.

5120 Horseshoe Basin — 35.N 44.E 3 LOTS 1, 2, 3, 4, S2N2, S2 — 639.40
This tract has dryland agriculture, conservation reserve program acreage, and native rangeland. There is a large reservoir located on the SE4. This tract has habitat resources for upland birds, waterfowl and wildlife. The CRP stipulation and the stream, reservoir, etc. buffer stipulation will be added to this tracts lease.

5121 Horseshoe Basin — 35.N 44.E 8 SW4, E2 — 480.00
This tract has conservation reserve program acreage and native rangeland. Tract has a perennial stream identified as the West Fork of the Poplar River. This tract has habitat resources for upland birds, waterfowl, fisheries and wildlife. The CRP stipulation will be added to this tracts lease. The 1/8th mile river buffer stip will be utilized For the West Fk of Poplar River. The 100-Ft stream buffer stip will be utilized For intermittent streams.

5122 Horseshoe Basin — 35.N 44.E 9 ALL — 640.00
This tract is comprised of conservation reserve program acreage. Tract has habitat resources for upland birds and wildlife. The CRP stipulation will be added to this tracts lease.

5123 Horseshoe Basin — 35.N 44.E 10 ALL — 640.00
This tract is comprised of conservation reserve program acreage and native rangeland. Tract has an abandon homesite located on the NW4 of section. There is habitat resource for upland birds, waterfowl, and wildlife. The CRP stipulation will be added to this tracts lease.
The abandoned homesite is covered by setbacks in the lease.

5124 Horseshoe Basin — 35.N 44.E 11 ALL — 640.00
This tract is comprised of conservation reserve program acreage. Tract has habitat resources for upland birds and wildlife. The CRP stipulation will be added to this this tract's lease.

5125 Horseshoe Basin — 35.N 44.E 14 ALL * — 640.00
This tract is comprised of native rangeland and dryland agriculture. Tract has habitat resources upland birds and wildlife.
Comment noted

STATE DOES NOT OWN THE SURFACE IN THE E2.

5126 Horseshoe Basin — 35.N 44.E 15 ALL * — 640.00
This tract is comprised of conservation reserve program acreage and native rangeland acreage. Tract has habitat types for upland birds, waterfowl and wildlife. The CRP stipulation will be added to this tracts lease.
STATE DOES NOT OWN THE SURFACE IN THE NW4.

5127 Horseshoe Basin — 35.N 44.E 16 ALL — 640.00
This tract is comprised of native rangeland and conservation reserve program acreage. Tract has the perennial stream identified as the West Fork of the Poplar River. Tract has habitat resources for upland birds, waterfowl, fisheries, and wildlife. The CRP stipulation will be added to this tracts lease.
The 1/8th mile buffer stipulation will be utilized For the West Fork of the Poplar River.
The 100-Ft Stream buffer stipulation will be utilized For intermittent streams.

PHILLIPS (NELO-G, FWP-6)

5100 Double S Hill — 33.N 34.E 15 S2SE4, NW4SE4, SW4NE4 — 160.00
Genevive
Bjornberg Bridge
Porcupine Coulee
This tract is comprised of native rangeland. There is a perennial stream on tract identified as Frenchman Creek. Tract contains habitat resources for upland birds, waterfowl and wildlife.
The stream, etc. buffer stipulation will be placed on this tracts lease.

5101 Double S Hill — 33.N 34.E 16 ALL — 640.00

Porcupine Coulee

This tract is comprised of native rangeland. Tract has a livestock water pit located on the SE4SW4. Tract has several teepee rings located on the hilltops that overlook the drainages. Tract has habitat types for upland birds, waterfowl and wildlife. The cultural resources stipulation is applied to all MT oil & gas leases.

The stream, reservoir, pond, etc buffer stipulation will be utilized on this tract.

Montana Fish, Wildlife & Parks

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JAN 08 2001
DNRC

Box 581
Red Lodge, MT 59068
January 5, 2001

Teresa Kinley
Minerals Management Bureau
Dept. Natural Resources and Conservation
PO Box 201601
Helena, MT 59620-1601

RE: March 6, 2001 Oil and Gas Lease Sale

Dear Ms. Kinley

Two of the tracts you requested comment on in your letter of December 29 have important wildlife values.

App# 5137. T5S, R21E, Sec 36. This area serves as winter range for mule deer and white-tail deer. We would suggest a no surface occupancy stipulation from Dec. 1 to April 15 each year.

App# 5140. T7S, R21E, Sec 36. This area is part of a critical mule deer winter range. We would suggest a no surface occupancy stipulation from Dec. 1 to April 15 each year.

Future communications might be quicker if you contacted me by e-mail at sstewart@twoalpha.net and I could return my comments in the same way.

Thank you for your consideration.

The wildlife stipulation restricting surface occupancy From Dec 1 to April 15 will be utilized on these two tracts.

Sincerely,

Shawn T Stewart

Shawn T. Stewart
Area Wildlife Biologist

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

RECEIVED
JAN 0 9 2001
D.N.R.C.

Conrad Unit Office

MARC RACICOT, GOVERNOR
P.O. Box 961, Conrad, MT 59425, (406)-278-7869
1625 ELEVENTH AVENUE

STATE OF MONTANA

DIRECTOR'S OFFICE (406) 444-2074
TELEFAX NUMBER (406) 444-2684
PO BOX 201601
HELENA, MONTANA 59620-1601

January 08, 2001

MEMORANDUM

TO: Teresa Kinley, Hydrogeologist, Minerals Management Bureau

FROM: Erik Eneboe, Conrad Unit Manager, CLO Erik Eneboe by Brian King

RE: March 6, 2000 Oil and Gas Lease Sale
Conrad Unit, CLO

Steve Dobson has reviewed each tract of land associated with the proposed Oil and Gas Lease Sale on March 6, 2001. This MEMO contains general and specific comments for the tracts that are located within the Conrad Unit. Per your request, comments on non-state owned surfaces are also included.

I recommend proceeding the with standard lease sale on all tracts of land reviewed for this sale. I believe potential development of Oil and Gas operations on these tracts (both state and private lands) is prudent and is possible using mitigation measures to minimize adverse environmental impacts.

If you have any questions, feel free to call.

c: Mark Ahner, Area Manager, CLO

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

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JAN 0 9 2001
D.N.R.C.

MARC RACICOT, GOVERNOR
1625 ELEVENTH AVENUE
STATE OF MONTANA
DIRECTOR'S OFFICE (406) 444-2074
TELEFAX NUMBER (406) 444-2684
PO BOX 201601
HELENA, MONTANA 59620-1601

January 4, 2001

TO: Teresa Kinley, Hydro- geologist, MMB

FROM: Steve Dobson, LUS,CLO

RE: March 6, 2001 Oil & Gas Lease Sale

TOOLE COUNTY:

T31N, R3E, Sec 8, App# 5102

Entire tract is in native range. Willow Creek, which is an intermittent creek, cuts the tract. No concerns noted. The stream etc. buffer stipulation will be placed on this tract's lease.

T31N, R3E, Sec 9, App# 5103

Same basic description as App# 5102. Entire tract is in native range. No concerns noted. The stream, etc. buffer stipulation will be placed on this tract's lease.

T32N, R2E, Sec 16, App# 5092

This tract is in agricultural production. There is a farm residence located in the NE4 of the section. Residence is covered by setbacks in lease.

T37N, R1E, Sec 16, App# 5118

There are a couple of springs located on this tract. Of importance is a spring located in the SW4 of the section. This spring supply's water to the Maggie Nutter Ranch located to the west in section 17. The sensitive areas stipulation will be utilized on this tract since it is adjacent to the SweetGrass Hills, West Butte study area.

T37N, R4W, Sec 23, App# 5128

Entire tract is currently in small grain agricultural production.

T37N, R4W, Sec 24, App# 5129

Entire tract is currently in small grain agricultural production.

T37N, R4W, Sec 25, App# 5130

This tract is all native range. Typical prairie pothole topography. No perennial water however. No concerns

The stream, wetlands, etc. buFFer stipulation will be added to this tract's lease.

PONDERA COUNTY:

T29N, R5W, Sec 33, App# 5089

This tract is currently enrolled in CRP. There are 5 acres of native range in the southwest part of the tract however.

The CRP stipulation will be added to this tract's lease.

T29N, R5W, Sec 34, App# 5090

Entire tract is in small grain agricultural production.

T29N, R5W, Sec 35, App# 5091

Entire tract is currently enrolled in CRP.

The CRP stipulation will be added to this tract's lease.

UNITED STATES
RTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

T29N R5W Sec 34
Fordyce

Hillridge Farms Inc OP
1. 71.3
CRP
493
98 2009
T-14 WA Boumans Bros. Inc. OP
HEL
2.
44.7
CRP #15
98 2009
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T-1451 B Ag
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12. 10
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T-606 Boumans Bros Inc OP
HEL
1. 36.5
CRP #15
98 2009
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T-2149 Boumans Bros Inc OP
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39. 9.9
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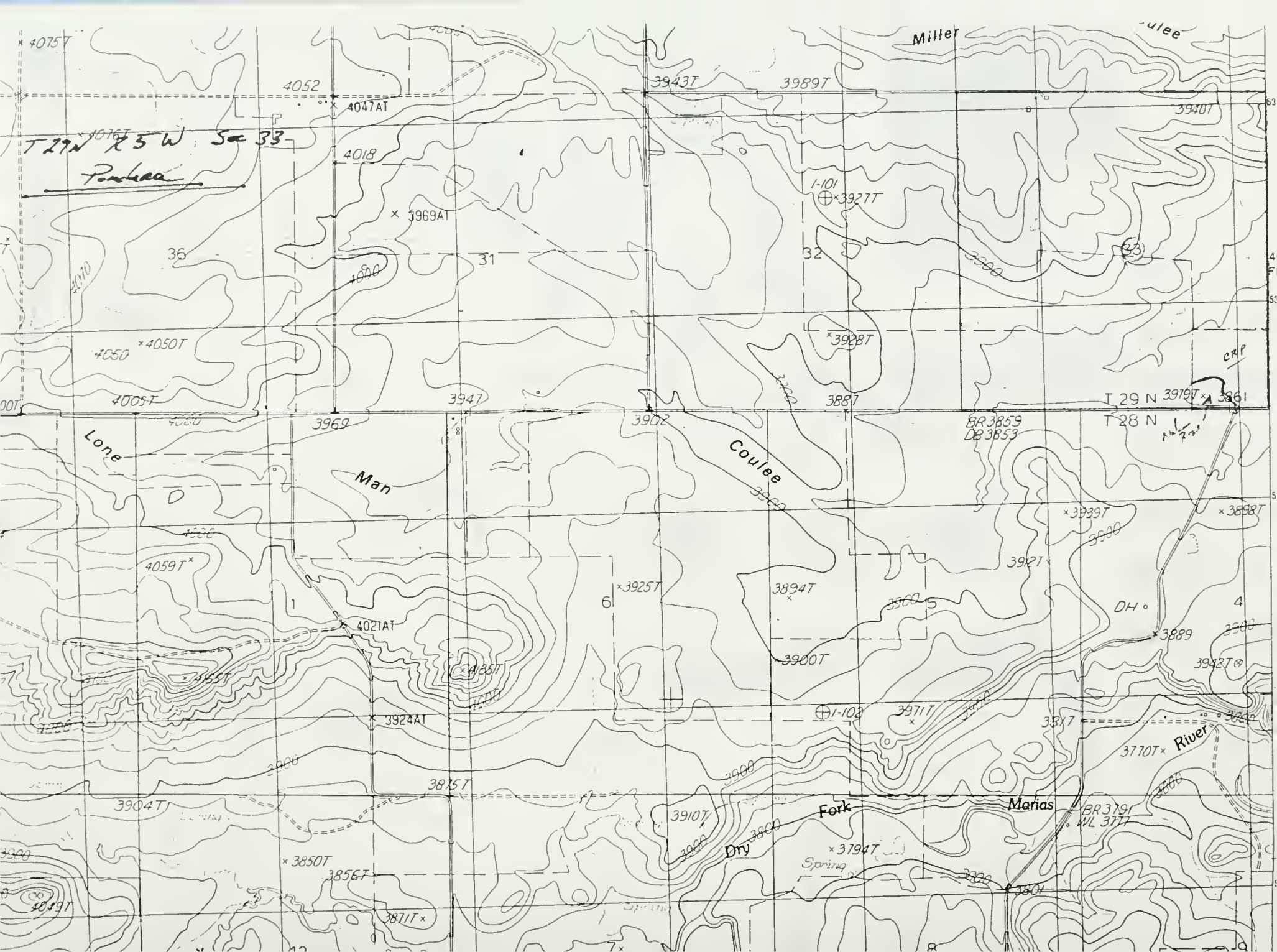
T 29 N R 5 W Sec 33
Pinhead
Miller
Coulee
Lone
Man
Coulee
Dry
Fork
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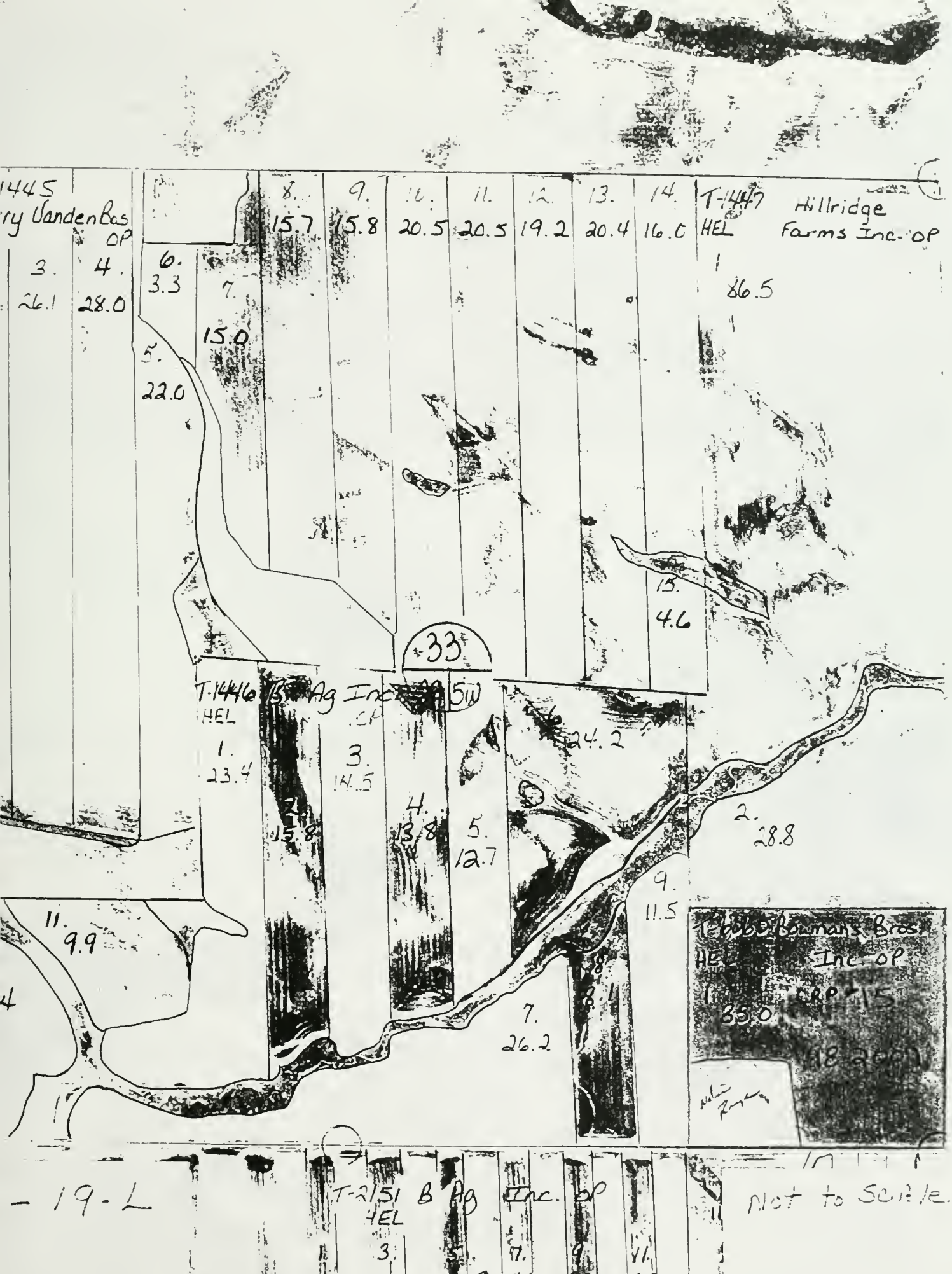
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Quarter Circle – ZN Ranch
Deer Creek
Rock Water Supply
GRAVEL PIT
RADIO TOWER 5942T
O'Loughlin Ranch
West Butte Ranch
Kicking Horse Canyon
Horse Creek
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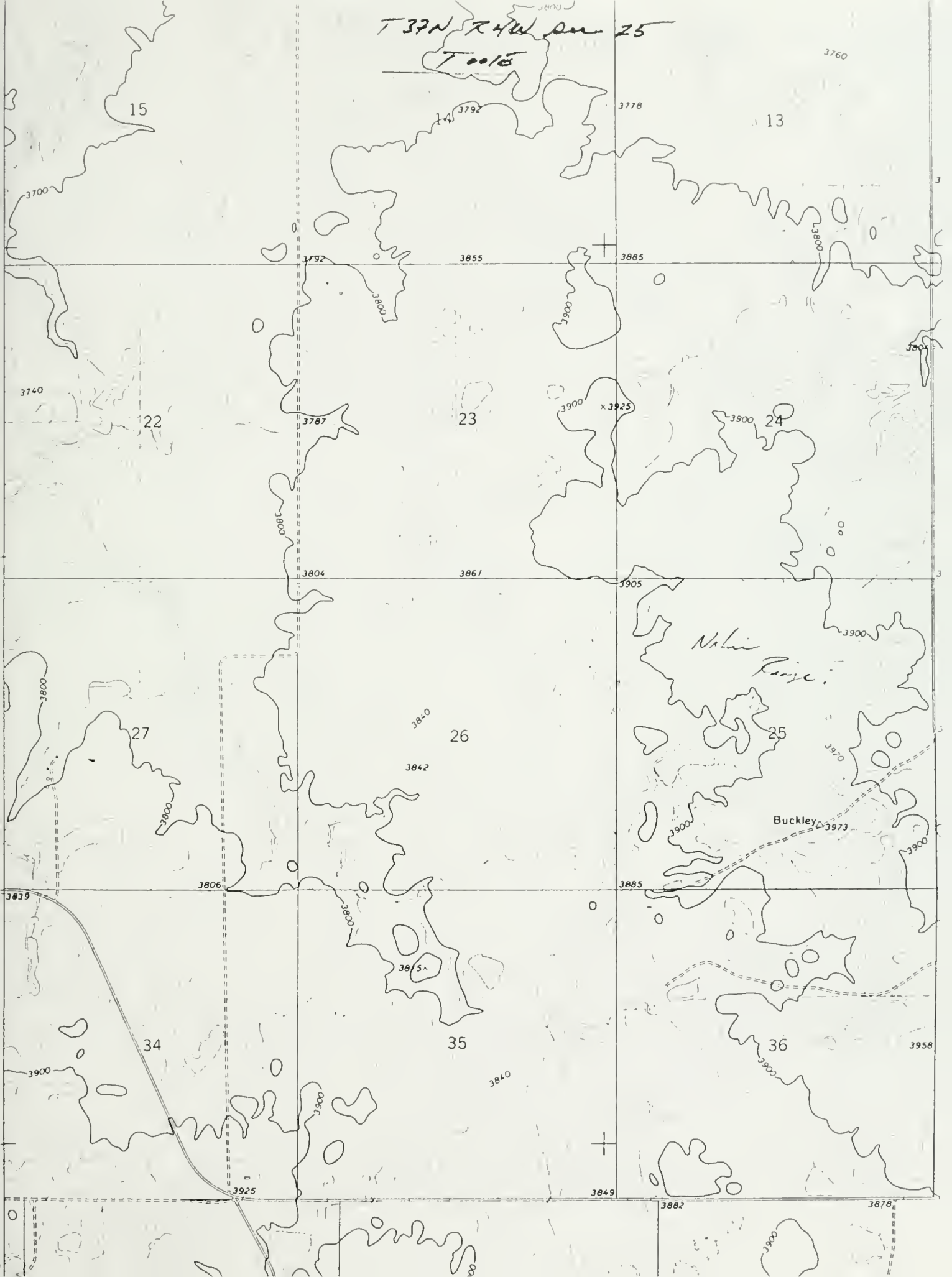
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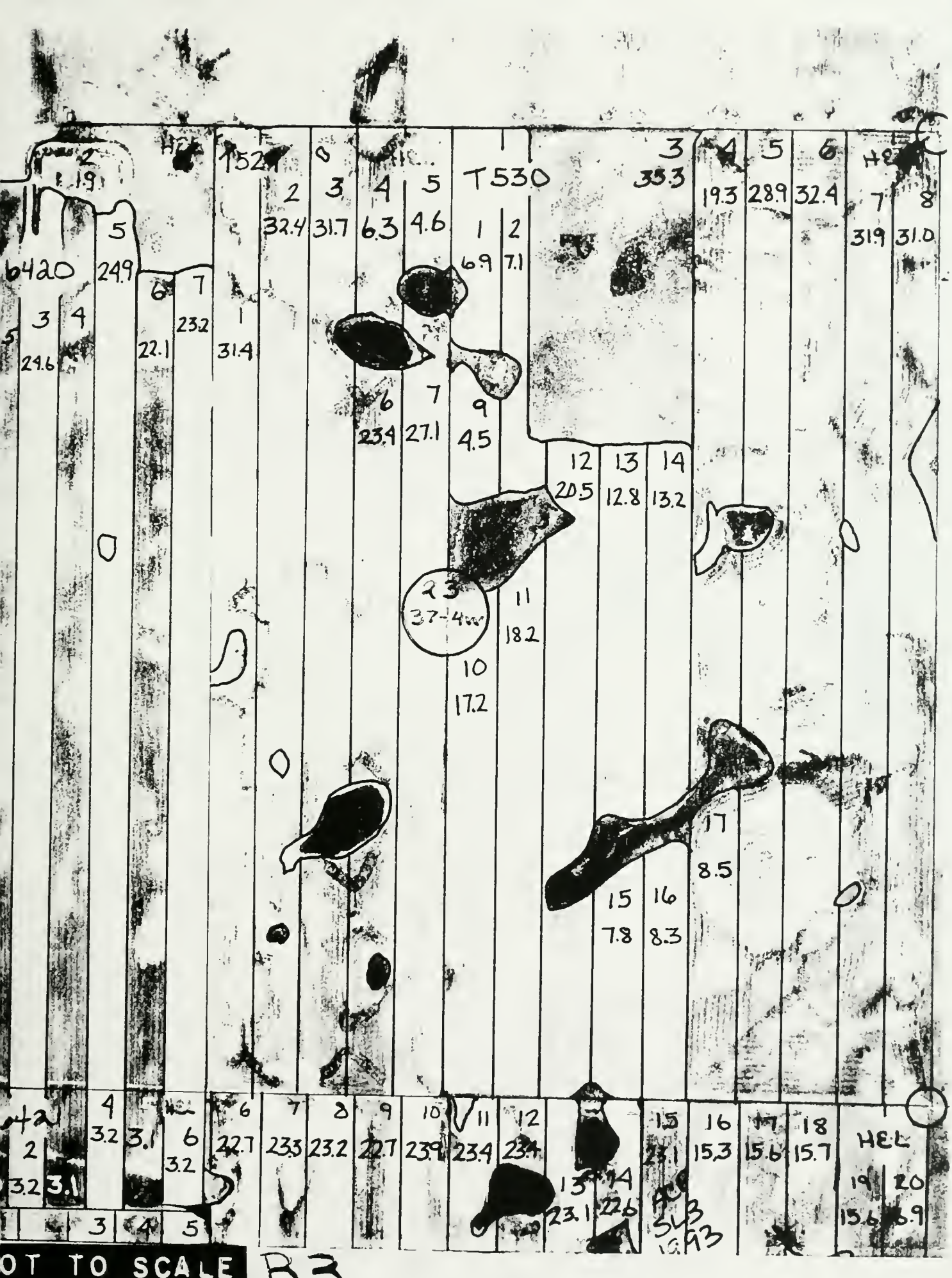
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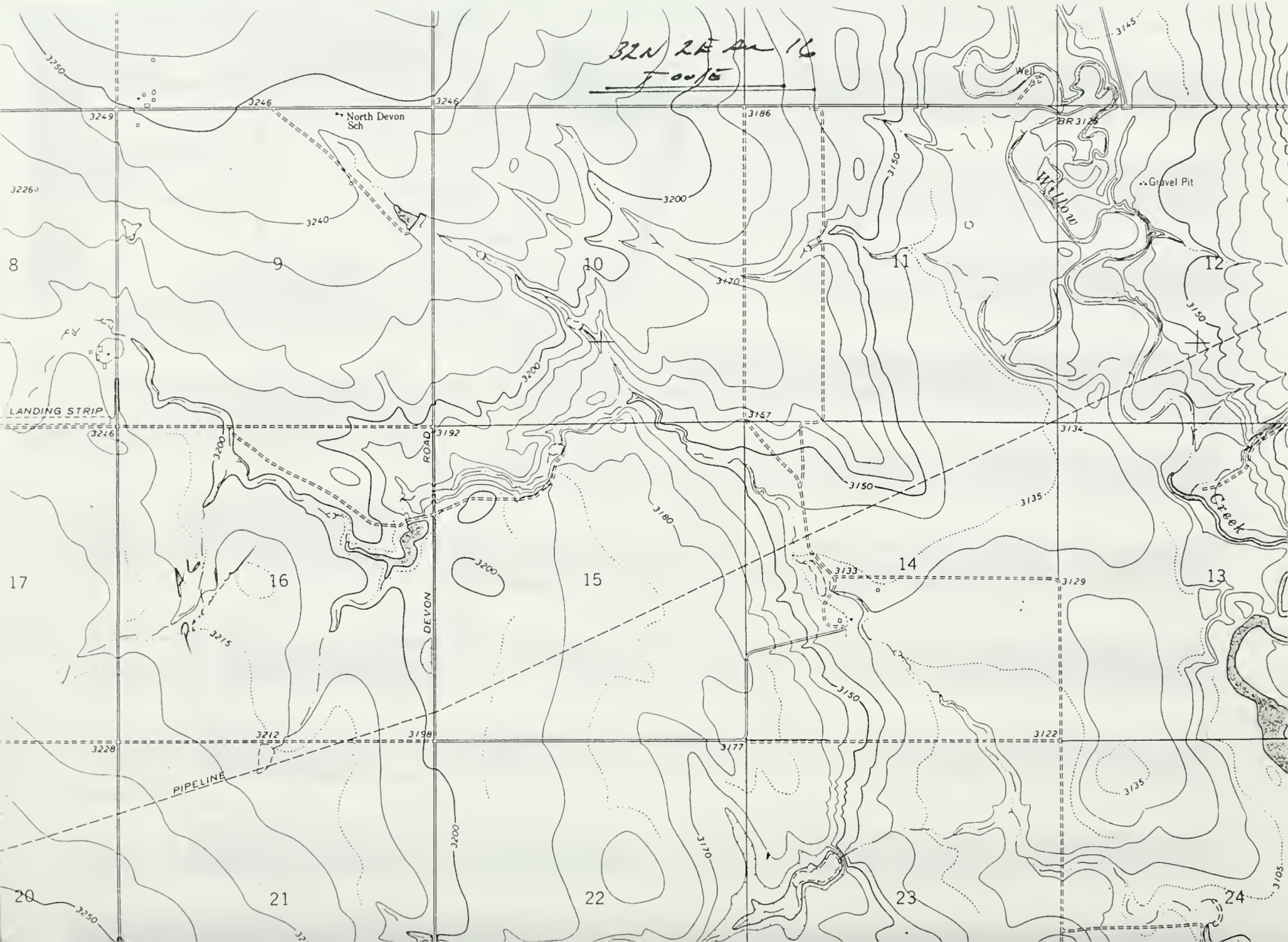
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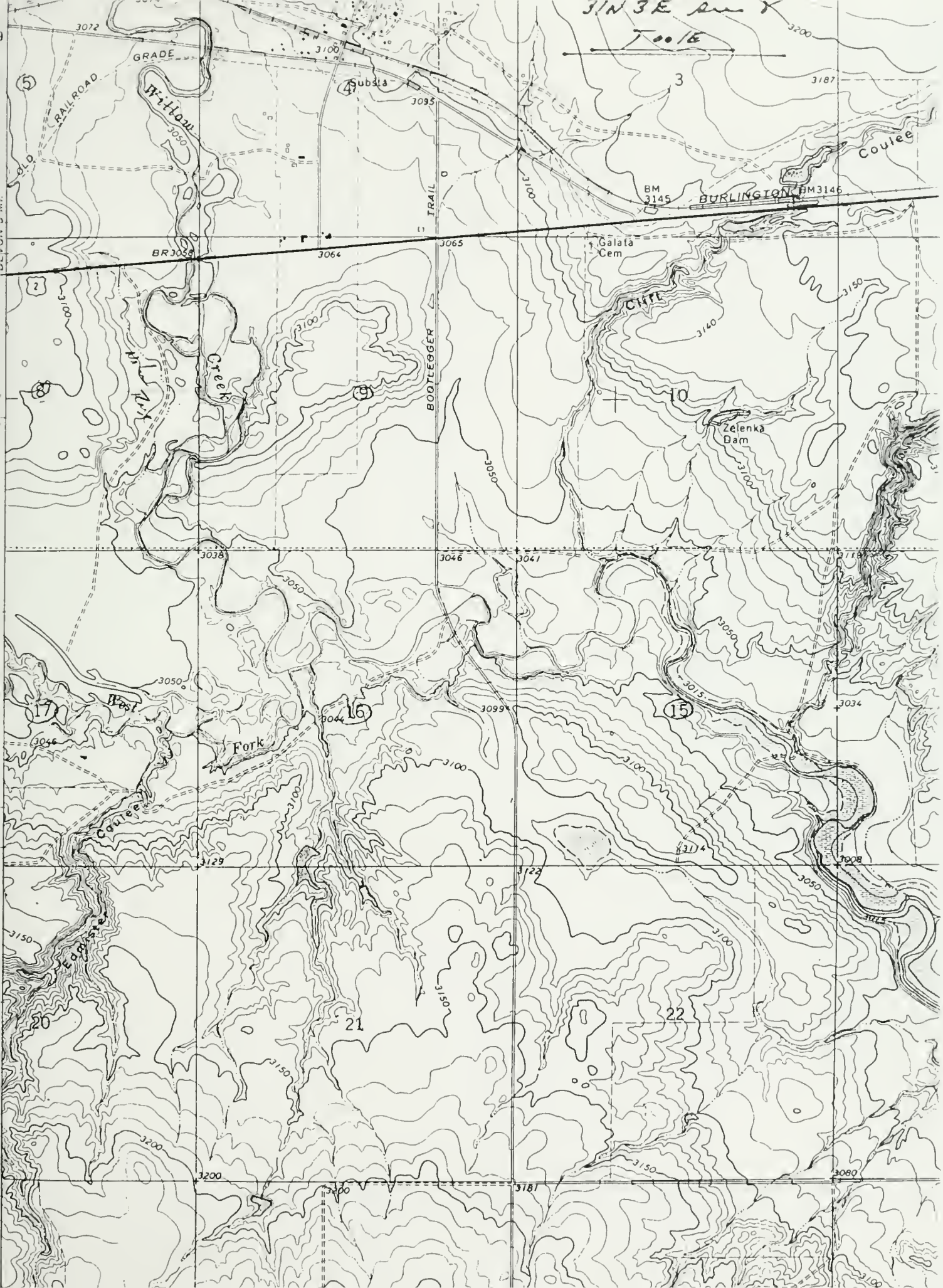
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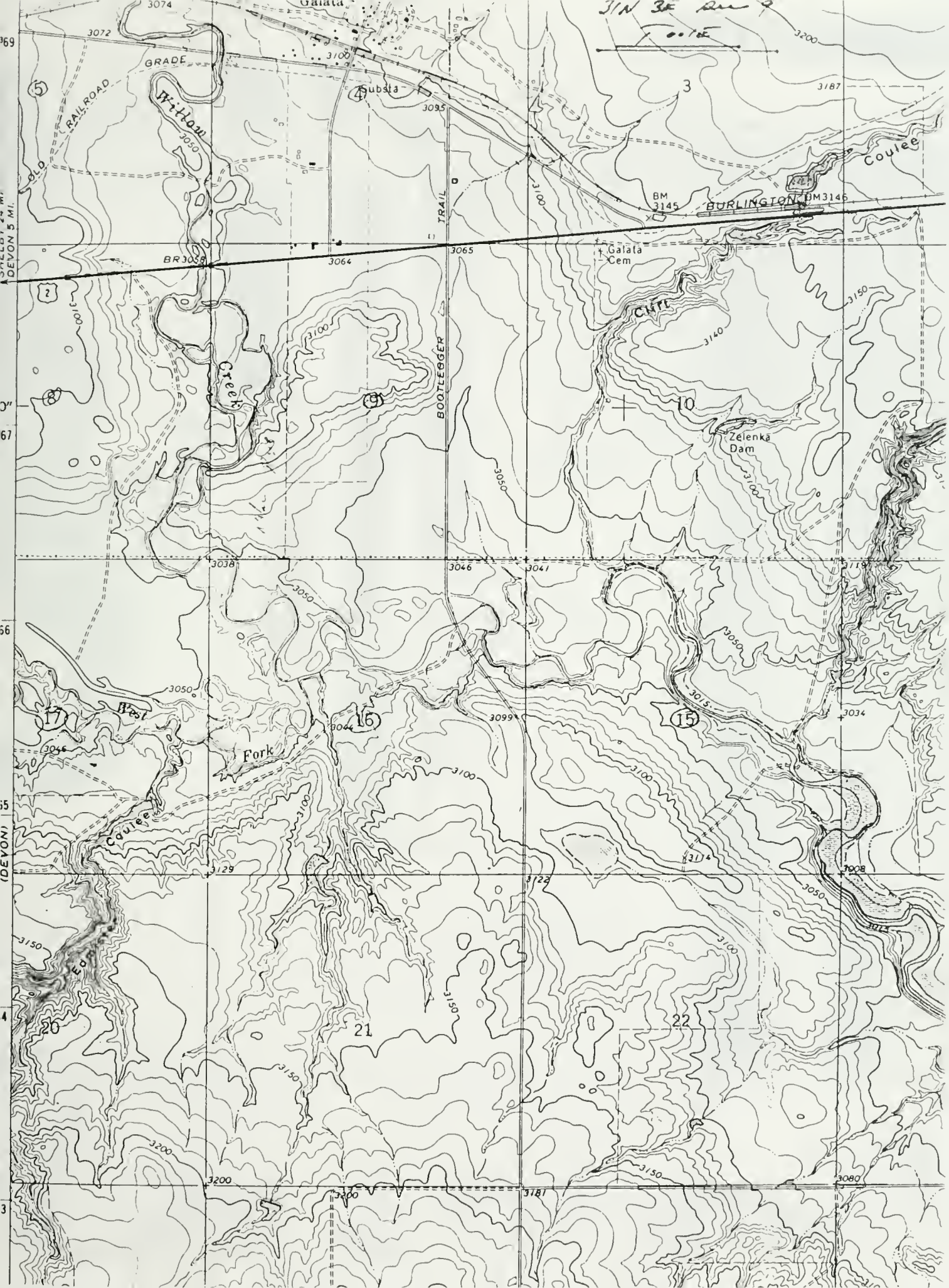
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CRP

MONTANA
Natural Heritage Program
A program of the
NATURAL RESOURCE INFORMATION SYSTEM

P.O. Box 201800 • 1515 East Sixth Avenue • Helena, Montana 59620-1800 • Fax: 406-444-0581 • Phone: 406-444-3009

January 11, 2001

Teresa Kinley
MT DNRC, Trust Land Management Division
1625 Eleventh Ave.
Helena, Montana 59620-1601

Dear Teresa,

I am writing in response to your request for information on species of special concern in the vicinity of the proposed Oil & Gas Lease Sale Tracts. We checked our databases for information in these areas. We have enclosed the species of concern reports, organized by township, range and section, for each area and 1 map for each area where these species were found. The results are summarized as follows:

COUNTY	APP#	LOCATION	NUMBER OF OCCURRENCES FOUND
Blaine	5019	T30N, R20E, Section 7	0
Blaine	5003	T31N, R19E, Section 36	0
Blaine	5020	T33N, R18E, Section 35	1
Blaine	5022	T34N, R20E, Section 16	2
Carbon	5024-5140	T05-07S, R21E; T06S, R22E	8
Carbon	5034	T08S, R24E, Section 16	4
Carter	5001-5002	T02N, R60E	2
Cascade	5007	T15N, R01W, Section 16	0
Chouteau	5036-5041	T25N, R15-16E	1
Chouteau	5042-5081	T26N, R14-15E	0
Custer	5004	T01N, R45E, Section 16	0
Daniels	5119	T34N, R47E, Section 22	0
Daniels	5120-5127	T34-35N, R44E	0
Dawson	5228	T15N, R57E, Section 16	0
Hill	5021; 5104-5115; 5143-5194; 5237-5244	T33N, R10-11E; T34N, R08E; T34N, R10-11E; T35N, R08-11E; T36N, R08-09E; T36N, R11E	0

COUNTY	APP#	LOCATION	NUMBER OF OCCURRENCES FOUND
Lewis & Clark	5023-5033	T12-13N, R03W	9
Lewis & Clark	5005-5006; 5008-5014	T14N, R02W; T15N, R02-03W	9
Lewis & Clark	5082-5088	T14N, R05W	2
Lewis & Clark	5035	T17N, R05W, Section 36	1
Liberty	5141-5142	T34N, R07E	0
Liberty	5093-5099; 5131-5134	T36N, R05-06E	1
Liberty	5135-5136	T37N, R04E	1
Phillips	5100-5101	T33N, R34E, Sections 15 & 16	1
Pondera	5089-5091	T29N, R05W, Sections 33-35	1
Powder River	5015-5017	T09S, R48E, Sections 4, 8 & 9	1
Rosebud	5018	T12N, R33E, Section 36	0
Toole	5102-5103	T31N, R03E, Sections 8 & 9	1
Toole	5092	T32N, R02E, Section 16	0
Toole	5118	T37N, R01E, Section 16	1
Toole	5128-5130	T37N, R04W, Sections 23-25	0
Wibaux	5195-5227; 5229-5236	T12N, R58-61E; T13-16N, R59-60E	1

Please keep in mind the following when using and interpreting the enclosed information and maps:

(1) These materials are the result of a search of our database for species of concern and communities that comprise high-quality wetlands, that occur in an area defined by the requested township and range (and section, if available) with an additional one-mile buffer surrounding the requested area. This is done to provide you with a more inclusive set of records and to capture records that may be immediately adjacent to the requested area.

(2) In the report, the term "precision" reflects the quality of the location information. S (second) precision is used when the location of the collection/observation is known within a three-second radius (approximately 10 acres); M (minute) precision is used when the location of the collection /observation is known within a one minute radius (approximately 1.5 miles); and G (general) precision is used when the location of the record/collection is known within a 5 mile radius or to a place name only. Some species locations outside the selection area have imprecisely-known locations and may actually occur within the selection area.

(3) Location information for animals represents occupied breeding habitat; location information for plants represents known occurrences of plant species, and, like animals, has an implied range that may not be fully conveyed by the mapped data. Most locations are depicted as points, but some, especially those that cover large area, are depicted as polygons on the map. The approximate boundaries of these polygons are color-coded to help differentiate vertebrate classes and plants.

(4) This report may include sensitive data, and is not intended for general distribution, publication or for use outside of your agency. In particular, public release of specific location information may jeopardize the welfare of threatened, endangered, or sensitive species or communities.

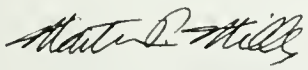
(5) The accompanying map(s) display management status, which may differ from ownership. Also, this report may include data from privately-owned lands, and approval by the landowner is advisable if specific location information is considered for distribution. Features shown on this map do not imply public access to any lands.

(6) Additional biological data for the search area(s) may be available from other sources. We suggest you contact the U.S. Fish and Wildlife Service for any additional information on threatened and endangered species (406-449-5225). Also, significant gaps exist in the Heritage Program's fisheries data, and we suggest you contact the Montana Rivers Information System for information related to your area of interest (406-444-3345).

(7) The results of a data search by the Montana Natural Heritage Program reflect the current status of our data collection efforts. These results are not intended as a final statement on sensitive species within a given area, or as a substitute for on-site surveys, which may be required for environmental assessments.

I hope the enclosed information is helpful to you. Please feel free to contact me at (406)-444-2817 or via my e-mail address, below, should you have any questions or require additional information.

Sincerely,



Martin P. Miller, Data Assistant
Montana Natural Heritage Program
(martinm@state.mt.us)

Montana Natural Heritage Program
P.O. Box 201800
1515 East Sixth Avenue
Helena, Montana 59620-1800
(406)444-3009
http://nris.state.mt.us

Explanation of Element Occurrence Reports

Since 1985, the Montana Natural Heritage Program (MTNHP) has been compiling and maintaining an inventory of the elements of biological diversity in Montana. This inventory includes plant species, animal species, plant communities, and other biological features that are rare, endemic, disjunct, threatened or endangered throughout their range in Montana, vulnerable to extirpation from Montana, or in need of further research.

Individual species, communities, or biological features are referred to as "elements." An "element occurrence" generally falls in one of the following categories:

Plants: A documented location of a plant population. In some instances, adjacent, spatially separated clusters are considered subpopulations and are grouped as one occurrence (e.g., the subpopulations occur in ecologically similar habitats, and are within approximately one air mile of one another).

Animals with limited mobility (most invertebrates, amphibians, reptiles, small mammals, most fish): The location of a specimen collection or of a verified sighting; assumed to represent a breeding population. Additional collections or sightings are often appended to the original record.

Mobile or migratory animals (most birds and larger mammals, some fish): Breeding areas (including nesting territories, dens and leks) and significant aggregation sites (winter feeding areas, staging grounds, or hibernacula).

Communities: All contiguous, high-quality habitat as defined by physical and biological features.

Other: Significant biological features not included in the above categories, such as bird rookeries, peatlands, or state champion trees.

The quantity and quality of data contained in MTNHP reports is dependent on the research and observations of the many individuals and organizations who contribute information to the program.

Please keep in mind that the absence of information for an area does not mean the absence of significant biological features. Reports produced by the Montana Natural Heritage Program summarize information known to the program at the time of a request. These reports are not intended as a final statement on the elements or areas being considered, nor are they a substitute for on-site surveys which may be required for environmental assessments.

As a user of MTNHP, your contributions of data are essential to maintaining the accuracy of our data bases. New or updated location information for all species of special concern is always welcome.

We encourage you to visit our website at http://nris.state.mt.us/mtnhp/. On-line tools include species lists, an electronic version of *Montana Bird Distribution*, and search capabilities by county, management unit, or USGS 7.5' quadrangle. Also available is the *Montana Rare Plant Field Guide*, which contains photos, high-quality diagnostic illustrations, and supporting information for over 300 rare plant species in Montana.

Certain codes and abbreviations are used in element occurrence reports. Although many of these are very straightforward, the following explanations should answer most questions.

Global Rank and State Rank

Taxa are evaluated and ranked by MTNHP on the basis of their global (range-wide) status, and their state-wide status according to a standardized procedure.

For each level of distribution, global and state, species are assigned a numeric rank ranging from 1 (critically imperiled) to 5 (demonstrably secure). For example, Clustered lady's-slipper (*Cypripedium fasciculatum*) is ranked G4 S2. That is, globally the species is apparently secure, while in Montana it is imperiled because of rarity, or because of other factors making it demonstrably vulnerable to extirpation.

Rank Definition

1 Critically imperiled because of extreme rarity, or because of some factor of its biology making it especially vulnerable to extirpation.

2 Imperiled because of rarity, or because of other factors demonstrably making it very vulnerable to extinction throughout its range.

3 Vulnerable because of rarity, or found in a restricted range even though it may be abundant at some of its locations.

4 Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.

5 Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.

U Possibly in peril but status uncertain; more information needed.

H Historical, known only from records over 50 years ago; may be rediscovered.

X Believed to be extinct; historical records only.

Other Global and State Rank codes:

T Rank for a subspecies or variety; appended to the global rank for the full species, e.g., G4T3.

Q Taxonomic questions or problems involved; more information needed.

? Inexact or uncertain.

Z Ranking not applicable.

A Accidental in the state. Includes species (usually birds or butterflies) recorded very infrequently, hundreds or thousands of miles outside their usual range.

B A state rank modifier indicating breeding status for a migratory species. Example: S1B, SZN = breeding occurrences for the species are ranked S1 (critically imperiled) in the state; non-breeding occurrences are not ranked in the state.

A modifier to SX or SH: the species has been reintroduced but the population is not yet established.

U. S. Fish And Wildlife Service Endangered Species Act Status

Abbreviations indicate the categories defined in the U.S. Fish and Wildlife Service Notice of Review and indicate the status of a taxon under the federal Endangered Species Act of 1973 (16 U.S.C.A. §1531-1543 (Supp. 1996)).

Note: the categories C2, 3B and 3C are no longer maintained by the U.S. Fish and Wildlife Service (61 FR 7596, Feb. 28, 1996).

Current categories are:

LE listed endangered

LT listed threatened

PE proposed endangered

PT proposed threatened

C candidate: Substantial information exists in U.S. Fish and Wildlife files on biological vulnerability to support

proposals to list as threatened or endangered.

NL not listed or no designation (see below)

XN non-essential experimental population

A species can have more than one federal designation if the species' status varies within its range. In these instances, the Montana designation is listed first. Example: LELT = species is listed as endangered in Montana; elsewhere in its range it is listed as threatened.

U.S. Forest Service Status

The status of species on Forest Service lands as defined by the U.S. Forest Service manual (2670.22). These taxa are listed as such by the Regional Forester (Northern Region) on National Forests in Montana. Species are listed as:

T/E/P listed as Threatened (LT) or Endangered (LE) under the Endangered Species Act or proposed for listing (P), and known or suspected to occur on national forests.

S sensitive species, subspecies or variety, for which the Regional Forester has determined there is a concern for population viability rangewide or in the region.

Bureau of Land Management Status

The status of species on Bureau of Land Management land is defined by the BLM 6840 manual and designated by the Montana State Office of the BLM in 1996:

S sensitive species: proven to be imperiled in at least part of its range and documented to occur on BLM lands.

W watch species: either known to be imperiled and suspected to occur on BLM lands, suspected to be imperiled and documented on BLM lands, or needing further study for other reasons.

Other terms that may be used in this report

USGS quadrangle – Name of the 7.5-minute USGS topographic map(s) where the population is located.

Township, range, section, TRS comments - legal description of the centroid of the population and, if known, additional townships or sections. TRS locators may be based on unsurveyed townships; in such cases, the locators are derived from U. S. Forest Service visitor maps or from BLM surface management status maps. This is done for convenience in describing species locations; the information does not necessarily indicate legal boundaries.

Precision – the level of location accuracy of the record.

S = accuracy of location is within an area of approximately 10 acres

M = accuracy of location is within a radius of approximately 1.5 miles

G = location is a place-name only, or within a radius of approximately 5 square miles.

Last observation: date the element was last observed extant at the site (not necessarily the date the site was last visited).

Land Owner/manager – the ownership or management of the land on which the element occurs. Areas are generally listed from smallest to largest. In most instances, this information is derived from U.S. Forest Service visitor maps or from BLM surface management status maps.

Please remember that this report is a summary of information. Additional data are available on most sites and species

If you have questions or need further assistance, please contact us either by phone at (406/444-0914), e-mail (mtnhp@nris.state.mt.us) or at the mailing address shown on the first page.

11-Jan-01

Montana Natural Heritage Program

Species of Special Concern: T33N, R18E, Section 35, Blaine County
App# 5020

Scientific Name: VULPES VELOX
Common Name: SWIFT FOX

Global Rank: G3
State Rank: S1

Forest Service status: SENSITIVE
USFWS Endangered Species Act Status: C
BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

LIMITED DATA AVAILABLE; BUT PROBABLY AT LEAST 4 BREEDING PAIRS ARE PRESENT. THE BOUNDARIES FOR THIS OCCURRENCE ENCOMPASS ALL REPORTED OBSERVATIONS LOCATED WITHIN 20 KM OF ONE ANOTHER. SPECIFIC OBSERVATION DATA AVAILABLE FROM MTNHP.

Last observation: 1996

Size (acres):

General site description:

ROLLING, GLACIATED MIXED-GRASS PRAIRIE WITH LIMITED SHRUB.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); BLM: LEWISTOWN FIELD OFFICE; FORT BELKNAP INDIAN RESERVATION

Comments:

41 OBSERVATIONS IN THE 1980S AND 1990S, INCLUDING 5 OF PUPS OR JUVENILES.

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: BORDER PRAIRIE

County: BLAINE; VALLEY; PHILLIPS; HILL

USGS quadrangle: (EXTENDS OVER NUMEROUS QUADS)

Precision: G

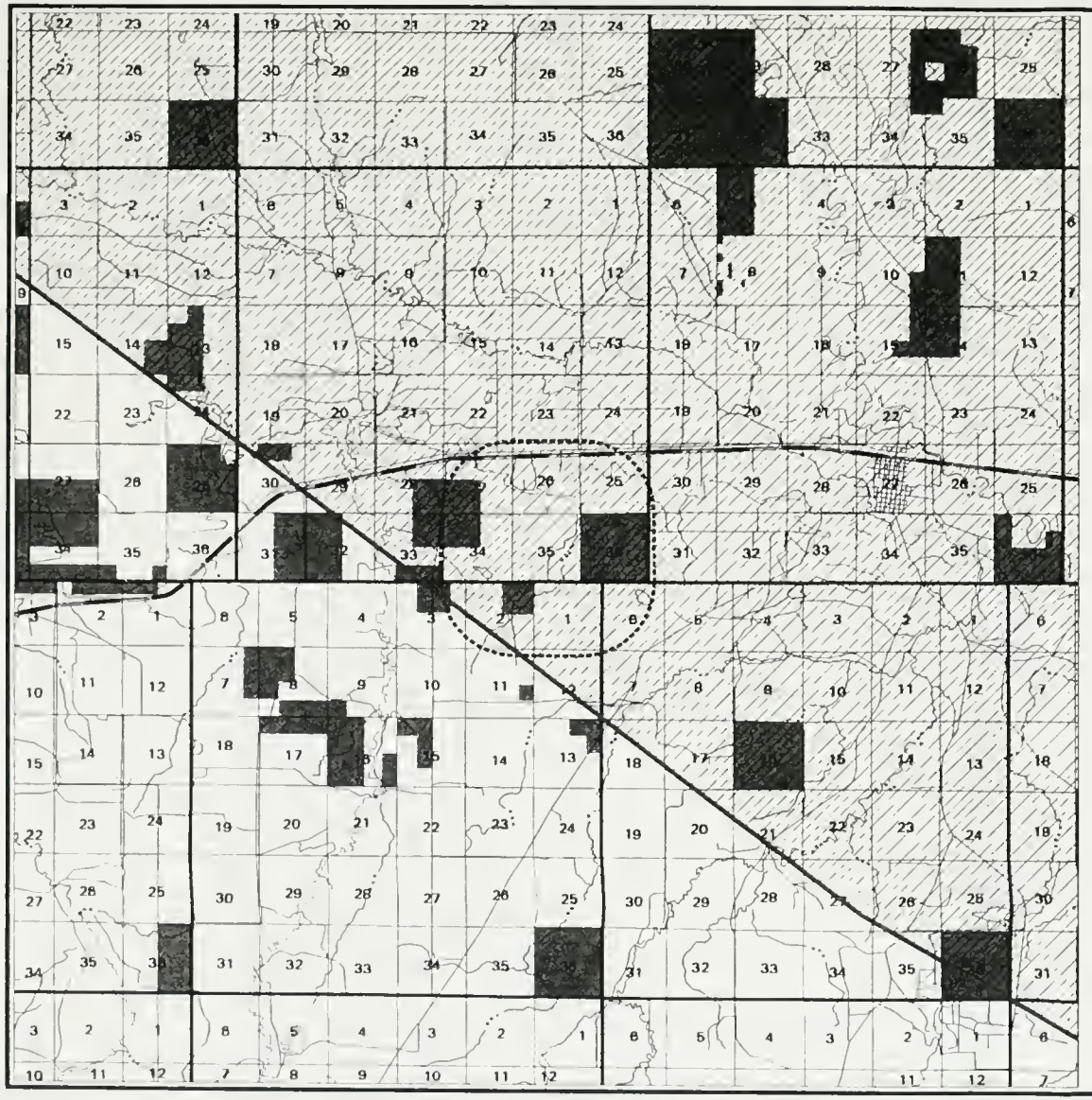
Elevation (ft):

Location:

A VERY LARGE AREA MOSTLY NORTH OF THE MILK RIVER FROM CHINOOK TO HINSDALE AND EXTENDING TO CANADA.

Township\Range:	Section:	TRS comments:
037N018E	12	CENTROID--OCCURRENCE EXTENDS OVER MANY TOWNSHIPS

Application # 5020 T33N, R18E, Sec. 35 is within the swift Fox area. The wildlife survey stipulation will be added to this tract's lease.



Montana Species of Special Concern
T33N, R18E, Sec. 35, Blaine County
App# 5020

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Mammals

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

- Species locations depicted outside the search area have imprecisely-known locations and may actually occur within the search area.
- Not all legend items may occur on map.
- This map displays management status, which may differ from ownership.
- Features shown on this map do not imply public access to any lands.
- Refer to accompanying documentation for full explanation of map features.

Scale of Miles 0 1 2 3 4 5 6 7

Request nhp5683c
January 09, 2001

MONTANA Natural Heritage Program

Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-1009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T34N, R20E, Section 16, Blaine County
App# 5022

Scientific Name: ATHENE CUNICULARIA

Common Name: BURROWING OWL

Global Rank G4 Forest Service status: SENSITIVE

State Rank: S3B,SZN USFWS Endangered Species Act Status:

BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

1 ADULT SEEN ENTERING BURROW.

Last observation: 1995-07-01 Size (acres):

General site description:

IN BADGERHOLE IN SHORTGRASS PRAIRIE CA. 15 METERS FROM EPHEMERAL POND. BURROW ENTRANCE MOUND CONTAINING OWL FEATHERS AND WHITEWASH.

Land owner/manager

BLM: HAVRE FIELD STATION; PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

OBSERVED BY JIM REICHEL.

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: COAL CREEK

County: BLAINE

USGS quadrangle: TULE LAKE

Precision: M

Elevation (ft): 2820

Location:

CA. 9 MILES NORTHEAST OF CHINOOK.

Township\Range:	Section:	TRS comments:
034N020E	10	

Application number #5022, T34N R20E Sec. 16 corners on section 10. It is cut by Coal Creek Coulee and has an intermittent pond. It has some areas of flat topography similar to that in Section 10.

The wildlife survey stipulation will be added to this tract's lease.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T34N, R20E, Section 16, Blaine County
App# 5022

Scientific Name: VULPES VELOX

Common Name: SWIFT FOX

Global Rank G3

State Rank: S1

Forest Service status: SENSITIVE

USFWS Endangered Species Act Status: C

BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

LIMITED DATA AVAILABLE; BUT PROBABLY AT LEAST 4 BREEDING PAIRS ARE PRESENT. THE BOUNDARIES FOR THIS OCCURRENCE ENCOMPASS ALL REPORTED OBSERVATIONS LOCATED WITHIN 20 KM OF ONE ANOTHER. SPECIFIC OBSERVATION DATA AVAILABLE FROM MTNHP.

Last observation: 1996

Size (acres):

General site description:

ROLLING, GLACIATED MIXED-GRASS PRAIRIE WITH LIMITED SHRUB.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); BLM: LEWISTOWN FIELD OFFICE; FORT BELKNAP INDIAN RESERVATION

Comments:

41 OBSERVATIONS IN THE 1980S AND 1990S, INCLUDING 5 OF PUPS OR JUVENILES.

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: BORDER PRAIRIE

County: BLAINE; VALLEY; PHILLIPS; HILL

USGS quadrangle: (EXTENDS OVER NUMEROUS QUADS)

Precision: G

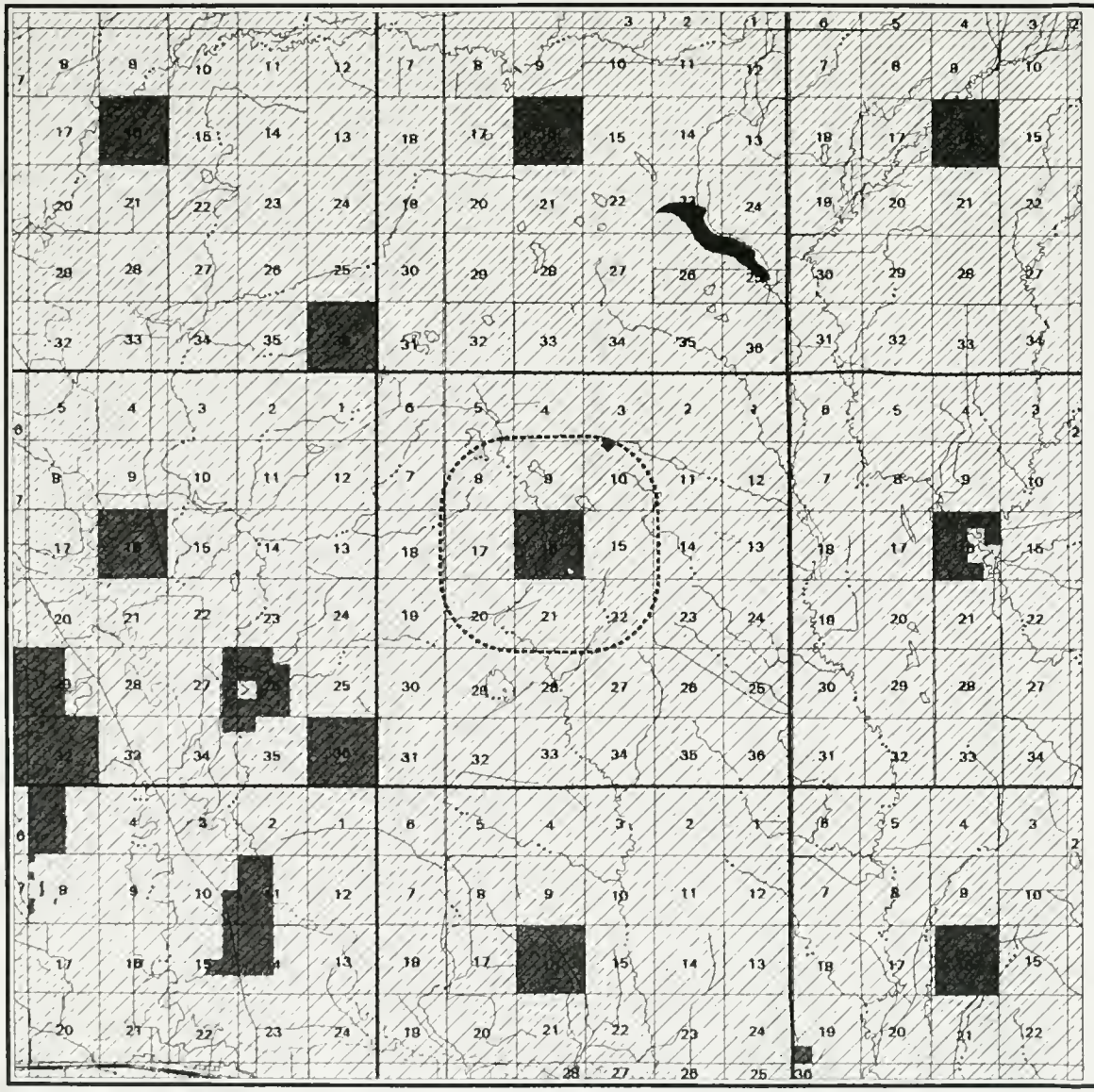
Elevation (ft):

Location:

A VERY LARGE AREA MOSTLY NORTH OF THE MILK RIVER FROM CHINOOK TO HINSDALE AND EXTENDING TO CANADA.

Township\Range:	Section:	TRS comments:
037N018E	12	CENTROID--OCCURRENCE EXTENDS OVER MANY TOWNSHIPS

T34N, R20E, Sec16 (Application # 5022) is within the swift fox area.
The wildlife survey stipulation will be added to this tract's lease.



Montana Species of Special Concern
T34N, R20E, Sec. 16, Blaine County
App# 5022

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Mammals

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

- Species locations depicted outside the search area have imprecisely-known locations and may actually occur within the search area.
- Not all legend items may occur on map.
- This map displays management status, which may differ from ownership.
- Features shown on this map do not imply public access to any lands.
- Refer to accompanying documentation for full explanation of map features.

Scale of Miles: 0 1 2 3 4 5 6 7

Request nhp5683d
January 09, 2001

MONTANA Natural Heritage Program

Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Scientific Name: LAMPROPELTIS TRIANGULUM

Common Name: MILK SNAKE

Global Rank G5 **Forest Service status:**

State Rank: S2 **USFWS Endangered Species Act Status:**

BLM Status:

Occurrence Type:

Species occurrence data:

Last observation: 1951-08-11 **Size (acres):**

General site description:

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

SPECIMEN COLLECTED NEAR JOLIET; HEAD MISSING. POD POINT: 71.27.6.

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: JOLIET

County: CARBON

USGS quadrangle: FROMBERG

Precision: G

Elevation (ft):

Location:

JOLIET.

Township\Range:	Section:	TRS comments:
004S022E	14	

Application # 5137 T 5 S R 21 E Sec 36 is
~ 9 to 10 miles away. Dissimilar habitat
— No impact —

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Scientific Name: SALIX BOOTHII / CALAMAGROSTIS CANADENSIS SHRUBLAND

Common Name:

Global Rank G3G4Q **Forest Service status:**

State Rank: SR **USFWS Endangered Species Act Status:**

BLM Status:

Occurrence Type: MAPPED MOSAIC, REPRESENTATIVE WETLAND COMMUNITY

Species occurrence data:

THIS ASSOCIATION OCCURS AS DISCONTINUOUS NARROW STRINGERS ASSOCIATED WITH LARGE SWALES IN THE FLOODPLAIN OF ROCK CREEK. THESE SEEPS ACCESS HYPORHEIC GROUNDWATER FROM ROCK CREEK. THE SHRUB LAYER IS OPEN AND CLUMPED. SALIX BOOTHII IS THE DOMINANT SPECIES WITH LESSER COVER OF ALNUS INCANA AND BETULA OCCIDENTALIS. CALAMAGROSTIS CANADENSIS HAS HIGH COVER AND IS THE DOMINANT HERBACEOUS SPECIES, EXCEPT IN AND ALONG THE SWALES THEMSELVES WHERE CAREX UTRICULATA IS LOCALLY DOMINANT. HERACLEUM MAXIMUM, SCIRPUS MICROCARPUS, TYPHA LATIFOLIA, EQUISETUM ARVENSE, AND SENECIO PSEUDAUREUS ARE ALSO PRESENT. THE CALAMAGROSTIS CANADENSIS AND CAREX UTRICULATA PORTIONS OF THIS OCCURRENCE ARE TIGHTLY INTERSPERSED.

Last observation: **Size (acres):**

General site description:

BULL SPRINGS OCCURS IN THE FLOODPLAIN OF ROCK CREEK AND IS CHARACTERIZED BY COTTONWOOD GALLERY FORESTS AND WILLOW COMMUNITIES ALONG WET SWALES. ROCK CREEK IS BRAIDED WITH TWO OR THREE PRIMARY CHANNELS AND MANY SWALES, SOME OF WHICH INTERSECT HYPORHEIC GROUNDWATER AND HAVE STANDING OR FLOWING WATER.

Land owner/manager

STATE LAND - UNDESIGNATED

Comments:

ALTHOUGH THERE ARE SEVERAL DIVERSION DITCHES UPSTREAM OF AND WITHIN THIS REACH, THIS SECTION OF ROCK CREEK APPEARS TO SUPPORT IMPORTANT HYDROLOGIC FUNCTIONS, SUCH AS DYNAMIC WATER STORAGE AND SURFACE WATER - GROUNDWATER INTERACTIONS. THE FLOODPLAIN IS STILL ACCESSED BY SURFACE AND SUBSURFACE FLOODING REGIMES TO THE FLOODPLAIN, AND NATIVE VEGETATION APPEARS TO BE HIGHLY CONNECTED AND OCCUPY MUCH OF THE FLOODPLAIN.

Information source

Application # 5138 T6S R21E Sec 16 is ~ 2 1/2 to 3 1/2 miles away. Rock Creek does not cut this tract. Dissimilar habitat - no impact

Survey site name: BULL SPRINGS

County: CARBON

USGS quadrangle: ROBERTS

Precision: M Known to w/in 1 mile.

Elevation (ft): 4960

Location:

BULL SPRINGS IS LOCATED IN THE FOOTHILLS NEAR THE BEARTOOTH MOUNTAINS IN SOUTH-CENTRAL MONTANA. FROM RED LODGE, TRAVEL NORTH ON U.S. HIGHWAY 212 FOR APPROXIMATELY 5.5 MILES. TURN EAST ON A DIRT ROAD THAT IS SIGNED FOR ROCK CREEK FISHING ACCESS. FOLLOW THIS ROAD FOR APPROXIMATELY 0.5 MILE. AFTER CROSSING ROCK CREEK, TURN LEFT AT A T-INTERSECTION. THE BULL SPRINGS FISHING ACCESS IS JUST PAST THE INTERSECTION ON THE LEFT.

Township\Range:	Section:	TRS comments:
6S 20E	25	

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Scientific Name: ALNUS INCANA / CALAMAGROSTIS CANADENSIS SHRUBLAND

Common Name:

Global Rank G3Q **Forest Service status:**

State Rank: S3Q **USFWS Endangered Species Act Status:**

BLM Status:

Occurrence Type: MAPPED MOSAIC, REPRESENTATIVE WETLAND COMMUNITY

Species occurrence data:

THIS OCCURRENCE IS LOCATED ON THE LOWER PORTIONS OF THE FLOODPLAIN ALONG THE ACTIVE CHANNELS OF ROCK CREEK. IT OCCURS IN SWALES AND OLD CHANNELS, SOME OF WHICH HAVE BEEN IMPOUNDED BY BEAVER DAMS. ALNUS INCANA IS PATCHILY DISTRIBUTED AND IS THE DOMINANT SHRUB. OTHER SHRUBS PRESENT AT LOW COVER ARE SALIX BEBBIANA, PRUNUS VIRGINIANA, AND SYMPHORICARPOS OCCIDENTALIS. CALAMAGROSTIS CANADENSIS IS VERY ABUNDANT AND DOMINATES THE HERBACEOUS LAYER. OTHER HERBACEOUS SPECIES ARE PRESENT AT LOW COVER AND INCLUDE HERACLEUM MAXIMUM, CAREX UTRICULATA, AND SCIRPUS MICROCARPA. CIRSIUM SPP. AND POA PRATENSIS ARE ALSO PRESENT AT LOW COVER. DENSE STANDS OF CAREX UTRICULATA FORM INCLUSIONS AROUND THE WET MARGINS OF BEAVER PONDS. THIS COMMUNITY IS TIGHTLY INTERSPERSED WITH A POPULUS BALSAMIFERA SSP. TRICHOCARPA COMMUNITY THAT OCCURS ON HIGHER FLOODPLAIN DEPOSITS.

Last observation: **Size (acres):**

General site description:

WATER BIRCH IS LOCATED IN THE FLOODPLAIN OF ROCK CREEK. IN THIS REACH, ROCK CREEK IS BRAIDED WITH TWO OR THREE PRIMARY CHANNELS. CHANNEL BANKS ARE ERODED AND THE SYSTEM APPEARS TO BE DOWNCUTTING. THE MICROTOPOGRAPHY OF THE FLOODPLAIN IS COMPLEX WITH MANY SWALES AND OLD CHANNELS. THIS MICROTOPOGRAPHIC RELIEF, AUGMENTED BY BEAVER ACTIVITY, HAS CREATED A MOSAIC OF INTERSPERSED SHRUB AND COTTONWOOD COMMUNITIES THAT OCCUPY MOST OF THE FLOODPLAIN. THESE SWALES AND OLD CHANNELS ARE OCCUPIED BY AN ALNUS INCANA / CALAMAGROSTIS CANADENSIS (THIN-LEAVED ALDER / BLUEJOINT REEDGRASS) COMMUNITY. THIS COMMUNITY INCLUDES DENSE STANDS OF CAREX UTRICULATA AROUND WET MARGINS OF BEAVER PONDS. INTERSPERSED WITH THIS COMMUNITY IS A POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA (BLACK COTTONWOOD / RED-OSIER DOGWOOD) COMMUNITY. THIS COMMUNITY INCLUDES SMALL INCLUSIONS OF SAPLING AND POLE-SIZED POPULUS BALSAMIFERA SSP. TRICHOCARPA REGENERATING ON POINT AND SIDE BARS. BEAVER HAVE CAUSED SUBSTANTIAL MORTALITY AMONG THESE SAPLINGS. THIS SITE ALSO SUPPORTS A SMALL SALIX BEBBIANA (BEBB WILLOW) COMMUNITY THAT IS SEASONALLY SATURATED FORM SEEPAGE FROM AN IRRIGATION DITCH. & HIGHER PORTIONS OF THE FLOODPLAIN SUPPORT POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS (BLACK COTTONWOOD / WESTERN SNOWBERRY) AND POPULUS TREMULOIDES / CALAMAGROSTIS CANADENSIS (QUAKING ASPEN / BLUEJOINT REEDGRASS) COMMUNITIES. THESE COMMUNITIES ARE PROBABLY ABOVE THE FLOOD PRONE ZONE (TWICE BANKFULL STAGE HEIGHT) AND SO MAY BE LESS INFLUENCED BY HYPORHEIC GROUNDWATER. MOISTURE AT THESE SITES IS PROBABLY MORE INFLUENCED BY SUBIRRIGATION FROM A TOESLOPE THAT FORMS A TOPOGRAPHIC BREAK BETWEEN THE ACTIVE FLOODPLAIN AND AN OLDER GLACIAL OUTWASH PLAIN.

Land owner/manager

WATER BIRCH FISHING ACCESS AREA

Comments:

ALTHOUGH THERE ARE SEVERAL DIVERSION DITCHES UPSTREAM OF AND WITHIN THIS REACH, THIS SECTION OF ROCK CREEK APPEARS TO SUPPORT IMPORTANT HYDROLOGIC FUNCTIONS, SUCH AS DYNAMIC WATER STORAGE AND SURFACE WATER - GROUNDWATER INTERACTIONS. THE FLOODPLAIN IS STILL ACCESSED BY SURFACE AND SUBSURFACE FLOODING REGIMES TO THE FLOODPLAIN, AND NATIVE VEGETATION APPEARS TO BE HIGHLY CONNECTED AND OCCUPY MUCH OF THE FLOODPLAIN.

No Page 3 sent! only 8 elements goes together as 2nd part of p.2 in this set!

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Information source

Survey site name: WATER BIRCH

County: CARBON

USGS quadrangle: ROBERTS

Precision: M

Elevation (ft): 4760

Location:

WATER BIRCH IS LOCATED IN THE FOOTHILLS NEAR THE BEARTOOTH MOUNTAINS IN SOUTH-CENTRAL MONTANA. FROM RED LODGE, TRAVEL NORTH ON U.S. HIGHWAY 212 FOR APPROXIMATELY 8.5 MILES. ACCESS TO WATER BIRCH IS SIGNED.

Township\Range:	Section:	TRS comments:
006S021E	7	18

Application # 5138 T6S, R21E Sec 16 is ~ 1 3/4 to 2 3/4 miles From this site. Rock Creek does not cut the tract. Dissimilar habitat. - No impact. -

Application # 5137 T5S R21E Sec 36 is ~ 4 - 5 miles From this site. Rock Creek does not cut the tract. Dissimilar habitat. - No impact. -

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Scientific Name: POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA FOREST

Common Name:

Global Rank	G3?	**Forest Service status:**	
State Rank:	S3?	**USFWS Endangered Species Act Status:**	
		BLM Status:	

Occurrence Type: MAPPED MOSAIC, REPRESENTATIVE WETLAND COMMUNITY

Species occurrence data:

THIS COMMUNITY OCCURS ON THE LOWER PORTIONS OF THE FLOODPLAIN ALONG THE ACTIVE CHANNELS OF ROCK CREEK. IT IS CHARACTERIZED BY AN OPEN OVERSTORY OF MATURE POPULUS BALSAMIFERA SSP. TRICHOCARPA. SHRUB COVER IS MODERATE AND IS COMPOSED OF CORNUS SERICEA, PRUNUS VIRGINIANA, SALIX LUCIDA SSP. CAUDATA, AND ALNUS INCANA. CALAMAGROSTIS CANADENSIS IS THE DOMINANT HERBACEOUS SPECIES, ALTHOUGH POA PRATENSIS IS ALSO WELL REPRESENTED. THIS OCCURRENCE CONTAINS INCLUSIONS OF POINT AND SIDE GRAVEL BARS THAT ARE BEING COLONIZED BY SAPLING AND POLE-SIZED POPULUS BALSAMIFERA SSP. TRICHOCARPA. THE REGENERATION SITES ALSO HAVE HIGHER COVER OF POA PRATENSIS. TARAXACUM OFFICINALE AND LEUCANTHEMUM VULGARE ARE PRESENT AT TRACE AMOUNTS. & MICROTOPOGRAPHIC RELIEF OF THE FLOODPLAIN (SWALES AND OLD CHANNELS) HAS CREATED A TIGHT INTERSPERSION OF THIS COMMUNITY WITH AN ALNUS INCANA / CALAMAGROSTIS CANADENSIS COMMUNITY, WHICH OCCUPIES THESE WETTER MICROSITES.

Last observation: **Size (acres):**

General site description:

WATER BIRCH IS LOCATED IN THE FLOODPLAIN OF ROCK CREEK. IN THIS REACH, ROCK CREEK IS BRAIDED WITH TWO OR THREE PRIMARY CHANNELS. CHANNEL BANKS ARE ERODED AND THE SYSTEM APPEARS TO BE DOWNCUTTING. THE MICROTOPOGRAPHY OF THE FLOODPLAIN IS COMPLEX WITH MANY SWALES AND OLD CHANNELS. THIS MICROTOPOGRAPHIC RELIEF, AUGMENTED BY BEAVER ACTIVITY, HAS CREATED A MOSAIC OF INTERSPERSED SHRUB AND COTTONWOOD COMMUNITIES THAT OCCUPY MOST OF THE FLOODPLAIN. THESE SWALES AND OLD CHANNELS ARE OCCUPIED BY AN ALNUS INCANA / CALAMAGROSTIS CANADENSIS (THIN-LEAVED ALDER / BLUEJOINT REEDGRASS) COMMUNITY. THIS COMMUNITY INCLUDES DENSE STANDS OF CAREX UTRICULATA AROUND WET MARGINS OF BEAVER PONDS. INTERSPERSED WITH THIS COMMUNITY IS A POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA (BLACK COTTONWOOD / RED-OSIER DOGWOOD) COMMUNITY. THIS COMMUNITY INCLUDES SMALL INCLUSIONS OF SAPLING AND POLE-SIZED POPULUS BALSAMIFERA SSP. TRICHOCARPA REGENERATING ON POINT AND SIDE BARS. BEAVER HAVE CAUSED SUBSTANTIAL MORTALITY AMONG THESE SAPLINGS. THIS SITE ALSO SUPPORTS A SMALL SALIX BEBBIANA (BEBB WILLOW) COMMUNITY THAT IS SEASONALLY SATURATED FORM SEEPAGE FROM AN IRRIGATION DITCH. & HIGHER PORTIONS OF THE FLOODPLAIN SUPPORT POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS (BLACK COTTONWOOD / WESTERN SNOWBERRY) AND POPULUS TREMULOIDES / CALAMAGROSTIS CANADENSIS (QUAKING ASPEN / BLUEJOINT REEDGRASS) COMMUNITIES. THESE COMMUNITIES ARE PROBABLY ABOVE THE FLOOD PRONE ZONE (TWICE BANKFULL STAGE HEIGHT) AND SO MAY BE LESS INFLUENCED BY HYPORHEIC GROUNDWATER. MOISTURE AT THESE SITES IS PROBABLY MORE INFLUENCED BY SUBIRRIGATION FROM A TOESLOPE THAT FORMS A TOPOGRAPHIC BREAK BETWEEN THE ACTIVE FLOODPLAIN AND AN OLDER GLACIAL OUTWASH PLAIN.

Land owner/manager

WATER BIRCH FISHING ACCESS AREA

Comments:

ALTHOUGH THERE ARE SEVERAL DIVERSION DITCHES UPSTREAM OF AND WITHIN THIS REACH, THIS SECTION OF ROCK CREEK APPEARS TO SUPPORT IMPORTANT HYDROLOGIC FUNCTIONS, SUCH AS DYNAMIC WATER STORAGE AND SURFACE WATER - GROUNDWATER INTERACTIONS. THE FLOODPLAIN IS STILL ACCESSED BY SURFACE AND SUBSURFACE FLOODING REGIMES TO THE FLOODPLAIN, AND

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

NATIVE VEGETATION APPEARS TO BE HIGHLY CONNECTED AND OCCUPY MUCH OF THE FLOODPLAIN.

Information source

Survey site name: WATER BIRCH

County: CARBON

USGS quadrangle: ROBERTS

Precision: M

Elevation (ft): 4760

Location:

WATER BIRCH IS LOCATED IN THE FOOTHILLS NEAR THE BEARTOOTH MOUNTAINS IN SOUTH-CENTRAL MONTANA. FROM RED LODGE, TRAVEL NORTH ON U.S. HIGHWAY 212 FOR APPROXIMATELY 8.5 MILES. ACCESS TO WATER BIRCH IS SIGNED.

Township\Range:	Section:	TRS comments:
006S021E	7	18

See page 5
– No impact –

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Scientific Name: SALIX BOOTHII / CALAMAGROSTIS CANADENSIS SHRUBLAND

Common Name:

Global Rank	G3G4Q	**Forest Service status:**	
State Rank:	SR	**USFWS Endangered Species Act Status:**	
		BLM Status:	

Occurrence Type: MAPPED MOSAIC, REPRESENTATIVE WETLAND COMMUNITY

Species occurrence data:

THIS COMMUNITY OCCURS IN THE FLOODPLAIN OF ROCK CREEK IN WHAT IS PROBABLY AN OLD BEAVER-INFLUENCED CHANNEL. SWALES WITHIN THIS COMMUNITY INTERCEPT HYPORHEIC GROUNDWATER. CLUMPED COVER OF SALIX BOOTHII AND ALNUS INCANA CHARACTERIZES THIS OCCURRENCE, WITH MINOR PRESENCE OF SALIX GEYERIANA, SYMPHORICARPOS OCCIDENTALIS, AND RUBUS IDAEUS. CALAMAGROSTIS CANADENSIS IS VERY ABUNDANT AND DOMINATES THE HERBACEOUS LAYER. HERACLEUM MAXIMUM AND CAREX STIPATA ARE OTHER COMMON SPECIES. CIRSIUM SP. AND CYNOGLOSSUM OFFICINALE ARE PRESENT AT VERY LOW COVER.

Last observation: **Size (acres):**

General site description:

HORSETHIEF STATION IS LOCATED IN THE FLOODPLAIN OF ROCK CREEK. IN THIS REACH, ROCK CREEK IS BRAIDED WITH TWO OR THREE PRIMARY CHANNELS AND MANY DRY (AT TIME OF SURVEY) GRAVEL-COBBLE BED OVERFLOW CHANNELS. CHANNEL BANKS ARE ERODED AND THE SYSTEM APPEARS TO BE DOWNCUTTING. THE MICROTOPOGRAPHY OF THE FLOODPLAIN IS COMPLEX WITH MANY SWALES AND OLD CHANNELS. MUCH OF THE FLOODPLAIN APPEARS TO BE ABOVE THE FLOOD PRONE ZONE (TWICE THE STAGE HEIGHT AT BANKFULL). & MOST OF THE SITE IS OCCUPIED BY MATURE COTTONWOOD GALLERY FOREST. TWO COMMUNITIES COMPRISE THESE FORESTS: POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA (BLACK COTTONWOOD / RED-OSIER DOGWOOD) AND POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS (BLACK COTTONWOOD / WESTERN SNOWBERRY). THE POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA ASSOCIATION OCCURS ON MID-CHANNEL BARS AND MORE MESIC PORTIONS OF THE FLOODPLAIN, WHILE THE POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS COMMUNITY OCCURS ON HIGHER FLOODPLAIN DEPOSITS ABOVE THE FLOOD PRONE ZONE. MESIC SWALES THAT INTERCEPT GROUNDWATER ARE INTERSPERSED THROUGHOUT THESE COMMUNITIES AND SUPPORT AN ALNUS INCANA / CALAMAGROSTIS CANADENSIS (THIN-LEAVED ALDER / BLUEJOINT REEDGRASS) COMMUNITY. & OLD BEAVER ACTIVITY HAS CREATED PONDED AREAS THAT HAVE SILTED UP AND NOW SUPPORT SMALL CAREX UTRICULATA (BEAKED SEDGE) AND CAREX LANUGINOSA (WOOLLY SEDGE) COMMUNITIES AND LARGER SALIX BOOTHII / CAREX UTRICULATA (BOOTH WILLOW / BEAKED SEDGE) AND SALIX BOOTHII / CALAMAGROSTIS CANADENSIS COMMUNITIES. THERE IS ALSO A SMALL PATCH OF POPULUS TREMULOIDES / PRUNUS VIRGINIANA (QUAKING ASPEN / CHOKECHERRY).

Land owner/manager

STATE LAND - UNDESIGNATED

Comments:

ALTHOUGH THERE ARE SEVERAL DIVERSION DITCHES UPSTREAM OF AND WITHIN THIS REACH, THIS SECTION OF ROCK CREEK APPEARS TO SUPPORT IMPORTANT HYDROLOGIC FUNCTIONS, SUCH AS DYNAMIC WATER STORAGE AND SURFACE WATER - GROUNDWATER INTERACTIONS. THE FLOODPLAIN IS STILL ACCESSED BY SURFACE AND SUBSURFACE FLOODING REGIMES TO THE FLOODPLAIN, AND NATIVE VEGETATION APPEARS TO BE HIGHLY CONNECTED AND OCCUPY MUCH OF THE FLOODPLAIN.

Information source

Survey site name: HORSETHIEF STATION

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

County: CARBON

USGS quadrangle: RED LODGE EAST

Precision: M

Elevation (ft): 5200

Location:

HORSETHIEF STATION IS LOCATED IN THE FOOTHILLS NEAR THE BEARTOOTH MOUNTAINS IN SOUTH-CENTRAL MONTANA. FROM RED LODGE, TRAVEL NORTH ON U.S. HIGHWAY 212 FOR A LITTLE OVER 1 MILE. TURN EAST ON A DIRT ROAD THAT IS SIGNED FOR ROCK CREEK FISHING ACCESS. FOLLOW THIS ROAD FOR A LITTLE LESS THAN 2 MILES. THE ACCESS TO HORSETHIEF STATION FISHING ACCESS IS SIGNED.

Township\Range:	Section:	TRS comments:
007S020E	11	2

Application # 5140 is in T7S, R21E Sec. 36
~ 6½ - 7½ miles From this site. Rock Creek does not cut this tract. Dissimilar habitat & distance.
—No impact—

Scientific Name: ALNUS INCANA / CALAMAGROSTIS CANADENSIS SHRUBLAND

Common Name:

Global Rank G3Q **Forest Service status:**

State Rank: S3Q **USFWS Endangered Species Act Status:**

BLM Status:

Occurrence Type: MAPPED MOSAIC, REPRESENTATIVE WETLAND COMMUNITY

Species occurrence data:

THIS ASSOCIATION OCCURS AS NARROW STRINGERS ALONG MESIC SWALES INTERSPERSED THROUGHOUT POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA AND POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS COMMUNITIES. SOIL IS SEASONALLY SATURATED. SHRUB COVER IS CLUMPED AND COMPOSED OF CRATAEGUS DOUGLASII, ALNUS INCANA, AND BETULA OCCIDENTALIS, WITH AN OCCASIONAL INDIVIDUAL SALIX BOOTHII AND SALIX BEBBIANA. SMALL PATCHES OF SAPLING-SIZED POPULUS TREMULOIDES ARE ALSO PRESENT. CALAMAGROSTIS CANADENSIS FORMS ABUNDANT COVER AND IS THE DOMINANT HERBACEOUS SPECIES. ANGELICA ARGUTA AND EQUISETUM ARVENSE ARE WELL REPRESENTED AND MIMULUS GUTTATUS AND JUNCUS ENSIFOLIUS ARE PRESENT AT LOW COVER. LEUCANTHEMUM VULGARE IS WELL ESTABLISHED IN PLACES. ALTHOUGH THIS OCCURRENCE IS PRIMARILY A NARROW STRINGER, IN PLACES IT EXPANDS ONTO SMALL MESIC BENCHES.

Last observation: **Size (acres):**

General site description:

HORSETHIEF STATION IS LOCATED IN THE FLOODPLAIN OF ROCK CREEK. IN THIS REACH, ROCK CREEK IS BRAIDED WITH TWO OR THREE PRIMARY CHANNELS AND MANY DRY (AT TIME OF SURVEY) GRAVEL-COBBLE BED OVERFLOW CHANNELS. CHANNEL BANKS ARE ERODED AND THE SYSTEM APPEARS TO BE DOWNCUTTING. THE MICROTOPOGRAPHY OF THE FLOODPLAIN IS COMPLEX WITH MANY SWALES AND OLD CHANNELS. MUCH OF THE FLOODPLAIN APPEARS TO BE ABOVE THE FLOOD PRONE ZONE (TWICE THE STAGE HEIGHT AT BANKFULL). & MOST OF THE SITE IS OCCUPIED BY MATURE COTTONWOOD GALLERY FOREST. TWO COMMUNITIES COMPRISE THESE FORESTS: POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA (BLACK COTTONWOOD / RED-OSIER DOGWOOD) AND POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS (BLACK COTTONWOOD / WESTERN SNOWBERRY). THE POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA ASSOCIATION OCCURS ON MID-CHANNEL BARS AND MORE MESIC PORTIONS OF THE FLOODPLAIN, WHILE THE POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS COMMUNITY OCCURS ON HIGHER FLOODPLAIN DEPOSITS ABOVE THE FLOOD PRONE ZONE. MESIC SWALES THAT INTERCEPT GROUNDWATER ARE INTERSPERSED THROUGHOUT THESE COMMUNITIES AND SUPPORT AN ALNUS INCANA / CALAMAGROSTIS CANADENSIS (THIN-LEAVED ALDER / BLUEJOINT REEDGRASS) COMMUNITY. & OLD BEAVER ACTIVITY HAS CREATED PONDED AREAS THAT HAVE SILTED UP AND NOW SUPPORT SMALL CAREX UTRICULATA (BEAKED SEDGE) AND CAREX LANUGINOSA (WOOLLY SEDGE) COMMUNITIES AND LARGER SALIX BOOTHII / CAREX UTRICULATA (BOOTH WILLOW / BEAKED SEDGE) AND SALIX BOOTHII / CALAMAGROSTIS CANADENSIS COMMUNITIES. THERE IS ALSO A SMALL PATCH OF POPULUS TREMULOIDES / PRUNUS VIRGINIANA (QUAKING ASPEN / CHOKECHERRY).

Land owner/manager

STATE LAND - UNDESIGNATED

Comments:

ALTHOUGH THERE ARE SEVERAL DIVERSION DITCHES UPSTREAM OF AND WITHIN THIS REACH, THIS SECTION OF ROCK CREEK APPEARS TO SUPPORT IMPORTANT HYDROLOGIC FUNCTIONS, SUCH AS DYNAMIC WATER STORAGE AND SURFACE WATER - GROUNDWATER INTERACTIONS. THE FLOODPLAIN IS STILL ACCESSED BY SURFACE AND SUBSURFACE FLOODING REGIMES TO THE FLOODPLAIN, AND NATIVE VEGETATION APPEARS TO BE HIGHLY CONNECTED AND OCCUPY MUCH OF THE FLOODPLAIN.

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Information source

Survey site name: HORSETHIEF STATION

County: CARBON

USGS quadrangle: RED LODGE EAST

Precision: M

Elevation (ft): 5200

Location:

HORSETHIEF STATION IS LOCATED IN THE FOOTHILLS NEAR THE BEARTOOTH MOUNTAINS IN SOUTH-CENTRAL MONTANA. FROM RED LODGE, TRAVEL NORTH ON U.S. HIGHWAY 212 FOR A LITTLE OVER 1 MILE. TURN EAST ON A DIRT ROAD THAT IS SIGNED FOR ROCK CREEK FISHING ACCESS. FOLLOW THIS ROAD FOR A LITTLE LESS THAN 2 MILES. THE ACCESS TO HORSETHIEF STATION FISHING ACCESS IS SIGNED.

Township\Range:	Section:	TRS comments:
007S020E	11	2

See page 9 –

No Impact

Scientific Name: POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA FOREST

Common Name:

Global Rank G3? **Forest Service status:**

State Rank: S3? **USFWS Endangered Species Act Status:**

BLM Status:

Occurrence Type: MAPPED MOSAIC, REPRESENTATIVE WETLAND COMMUNITY

Species occurrence data:

THIS ASSOCIATION OCCURS ON MID-CHANNEL ISLANDS AND MORE MESIC PORTIONS OF THE FLOODPLAIN ABOVE BANKFULL. THE COMMUNITY IS CHARACTERIZED BY AN OPEN TO CLOSED CANOPY OF POPULUS BALSAMIFERA SSP. TRICHOCARPA. SAPLING AND POLE-SIZED (AND OCCASIONAL MATURE) POPULUS TREMULOIDES (QUAKING ASPEN) AND PICEA ENGELMANNII (ENGELMANN SPRUCE) ARE WELL ESTABLISHED IN PLACES. THE SHRUB LAYER CONSISTS OF CLUMPED TALL SHRUBS, INCLUDING CORNUS SERICEA, ALNUS INCANA (THIN-LEAVED ALDER), BETULA OCCIDENTALIS (WATER BIRCH), AND PRUNUS VIRGINIANA (CHOKECHERRY), OVER A WELL-DEVELOPED MEDIUM SHRUB LAYER DOMINATED BY SYMPHORICARPOS OCCIDENTALIS. HERBACEOUS COVER IS SPARSE AND COMPOSED OF MESIC FORBS AND GRASSES. ELYMUS GLAUCUS IS COMMON AND CALAMAGROSTIS CANADENSIS, HERACLEUM MAXIMUM, SOLIDAGO CANADENSIS, RUDBECKIA LACINIATA, OSMORHIZA DEPAUPERATA, GALIUM BOREALE, AND MONARDA FISTULOSA ARE PRESENT AT LOW COVER. IN PORTIONS OF THIS OCCURRENCE, POA PRATENSIS AND PHLEUM PRATENSE ARE ABUNDANT AND LOCALLY DOMINANT. TREE COVER IS INTERSPERSED WITH MANY SMALL SHRUB AND HERBACEOUS-DOMINATED OPENINGS. MANY OF THESE OPENINGS HAVE WELL-ESTABLISHED PATCHES OF NOXIOUS WEEDS, SUCH AS CIRSIUM ARVENSE, LEUCANTHEMUM VULGARE, CENTAUREA MACULOSA, AND CYNOGLOSSUM OFFICINALE.

Last observation: **Size (acres):**

General site description:

HORSETHIEF STATION IS LOCATED IN THE FLOODPLAIN OF ROCK CREEK. IN THIS REACH, ROCK CREEK IS BRAIDED WITH TWO OR THREE PRIMARY CHANNELS AND MANY DRY (AT TIME OF SURVEY) GRAVEL-COBBLE BED OVERFLOW CHANNELS. CHANNEL BANKS ARE ERODED AND THE SYSTEM APPEARS TO BE DOWNCUTTING. THE MICROTOPOGRAPHY OF THE FLOODPLAIN IS COMPLEX WITH MANY SWALES AND OLD CHANNELS. MUCH OF THE FLOODPLAIN APPEARS TO BE ABOVE THE FLOOD PRONE ZONE (TWICE THE STAGE HEIGHT AT BANKFULL). & MOST OF THE SITE IS OCCUPIED BY MATURE COTTONWOOD GALLERY FOREST. TWO COMMUNITIES COMPRISE THESE FORESTS: POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA (BLACK COTTONWOOD / RED-OSIER DOGWOOD) AND POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS (BLACK COTTONWOOD / WESTERN SNOWBERRY). THE POPULUS BALSAMIFERA SSP. TRICHOCARPA / CORNUS SERICEA ASSOCIATION OCCURS ON MID-CHANNEL BARS AND MORE MESIC PORTIONS OF THE FLOODPLAIN, WHILE THE POPULUS BALSAMIFERA SSP. TRICHOCARPA / SYMPHORICARPOS OCCIDENTALIS COMMUNITY OCCURS ON HIGHER FLOODPLAIN DEPOSITS ABOVE THE FLOOD PRONE ZONE. MESIC SWALES THAT INTERCEPT GROUNDWATER ARE INTERSPERSED THROUGHOUT THESE COMMUNITIES AND SUPPORT AN ALNUS INCANA / CALAMAGROSTIS CANADENSIS (THIN-LEAVED ALDER / BLUEJOINT REEDGRASS) COMMUNITY. & OLD BEAVER ACTIVITY HAS CREATED PONDED AREAS THAT HAVE SILTED UP AND NOW SUPPORT SMALL CAREX UTRICULATA (BEAKED SEDGE) AND CAREX LANUGINOSA (WOOLLY SEDGE) COMMUNITIES AND LARGER SALIX BOOTHII / CAREX UTRICULATA (BOOTH WILLOW / BEAKED SEDGE) AND SALIX BOOTHII / CALAMAGROSTIS CANADENSIS COMMUNITIES. THERE IS ALSO A SMALL PATCH OF POPULUS TREMULOIDES / PRUNUS VIRGINIANA (QUAKING ASPEN / CHOKECHERRY).

Land owner/manager

STATE LAND - UNDESIGNATED

Comments:

ALTHOUGH THERE ARE SEVERAL DIVERSION DITCHES UPSTREAM OF AND WITHIN THIS REACH, THIS SECTION OF ROCK CREEK APPEARS TO SUPPORT IMPORTANT HYDROLOGIC FUNCTIONS, SUCH AS DYNAMIC WATER STORAGE AND SURFACE WATER - GROUNDWATER INTERACTIONS. THE FLOODPLAIN IS STILL ACCESSED BY SURFACE AND SUBSURFACE FLOODING REGIMES TO THE FLOODPLAIN, AND NATIVE VEGETATION APPEARS TO BE HIGHLY CONNECTED AND OCCUPY MUCH OF THE FLOODPLAIN.

Information source

Survey site name: HORSETHIEF STATION

County: CARBON

USGS quadrangle: RED LODGE EAST

Precision: M

Elevation (ft): 5200

Location:

HORSETHIEF STATION IS LOCATED IN THE FOOTHILLS NEAR THE BEARTOOTH MOUNTAINS IN SOUTH-CENTRAL MONTANA. FROM RED LODGE, TRAVEL NORTH ON U.S. HIGHWAY 212 FOR A LITTLE OVER 1 MILE. TURN EAST ON A DIRT ROAD THAT IS SIGNED FOR ROCK CREEK FISHING ACCESS. FOLLOW THIS ROAD FOR A LITTLE LESS THAN 2 MILES. THE ACCESS TO HORSETHIEF STATION FISHING ACCESS IS SIGNED.

Township\Range:	Section:	TRS comments:
007S020E	11	2

See page 9
No impact

Species of Special Concern: T05-07S, R21E; T06S, R22E, Carbon County
App# 5137-5140

Scientific Name: ERIGERON FORMOSISSIMUS VAR VISCIDUS

Common Name: BEAUTIFUL FLEABANE

Global Rank G5T4 **Forest Service status:**

State Rank: S1 **USFWS Endangered Species Act Status:**

BLM Status: WATCH

Occurrence Type:

Species occurrence data:

IN FLOWER.

Last observation: 1919-07-22 **Size (acres):** 0

General site description:

UNKNOWN.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

NONE.

Information source

BOTANIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, HELENA, MT 59620-1800.

Survey site name: RED LODGE

County: CARBON

USGS quadrangle: RED LODGE EAST

Precision: G

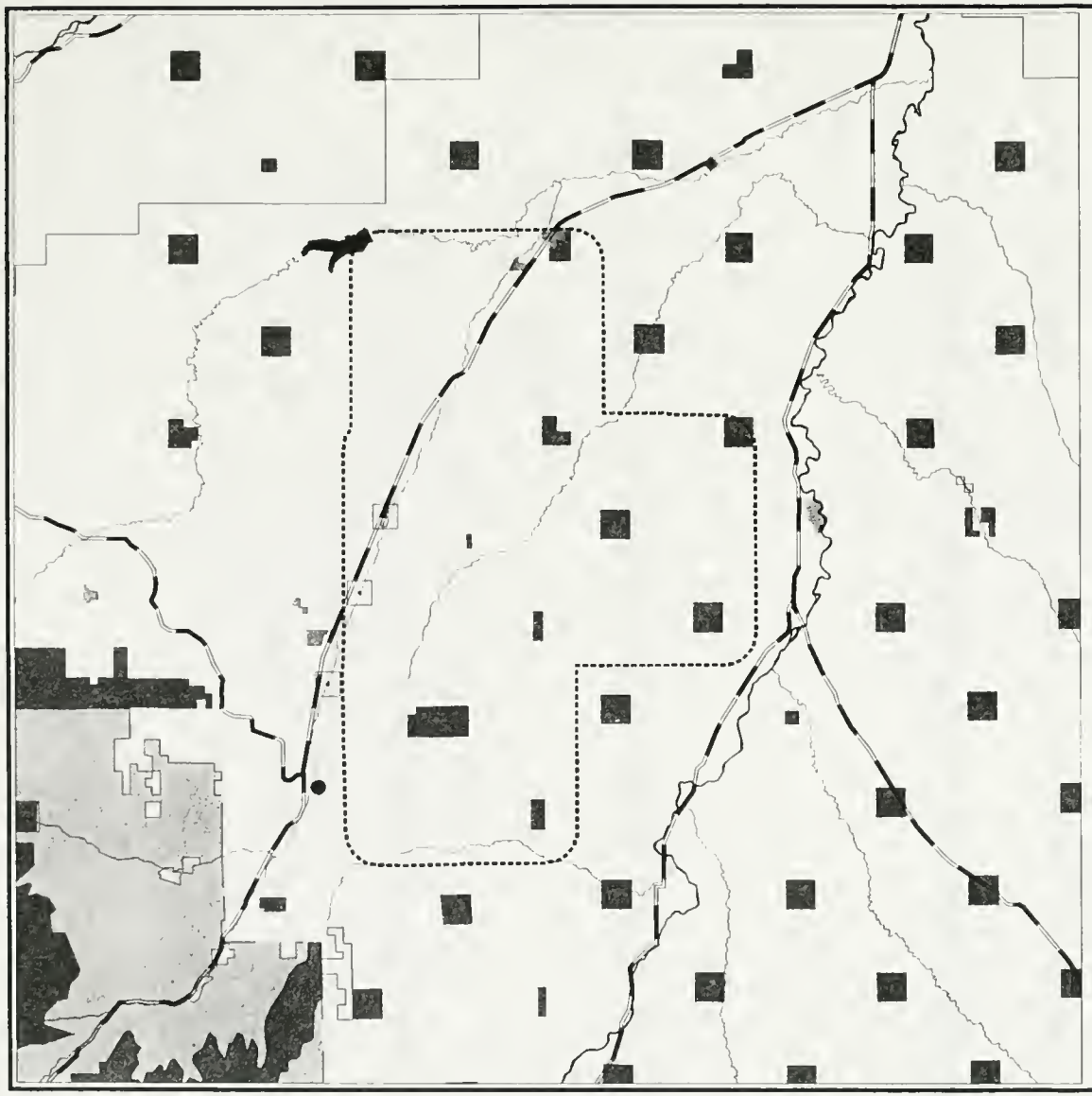
Elevation (ft): 5760

Location:

RED LODGE.

Township\Range:	Section:	TRS comments:
007S020E	26	

Application # 5140 T7S, R21E, Sec 36 is ~ 6 to 7½ miles away From this site. It has lower elevation and rougher steeper topography. Distance and dissimilar habitat. - No impact—



Montana Species of Special Concern
T05-07SR21E, T06SR22E, Carbon Co.
App# 5137-5140

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

- Species locations depicted outside the search area have imprecisely-known locations and may actually occur within the search area.
- Not all legend items may occur on map.
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- Features shown on this map do not imply public access to any lands.
- Refer to accompanying documentation for full explanation of map features.

Scale of Miles 0 5 10 15

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January 09, 2001

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Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T08S, R24E, Section 16, Carbon County
App# 5034

Scientific Name: CAMISSONIA ANDINA

Common Name: OBSCURE EVENING-PRIMROSE

Global Rank G4 **Forest Service status:**

State Rank: S2 **USFWS Endangered Species Act Status:**

BLM Status: SENSITIVE

Occurrence Type:

Species occurrence data:

1993: NO PLANTS FOUND. 1991: <100 PLANTS, IN FLOWER.

Last observation: 1991-06-13 **Size (acres):** 1

General site description:

DRY, SANDY BREAKS, UPPER SLOPE; WITH ARTEMISIA TRIDENTATA, AGROPYRON DASYSTACHYUM, POA SECUNDA, GILIA LEPTOMERIA AND PHACELIA IVESIANA.

Land owner/manager

BLM: BILLINGS FIELD OFFICE; PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

SITE REVISITED IN 1993 BY DON HEINZE AND JUDY MCCARTHY. IT WAS A POOR SPRING FOR ANNUAL PLANTS.

Information source

LESICA, PETER. DIVISION OF BIOLOGICAL SCIENCES, UNIVERSITY OF MONTANA, MISSOULA, MT 59812.

Survey site name: JACK CREEK

County: CARBON

USGS quadrangle: WADE

Precision: S

Elevation (ft): 4350

Location:

TAKE US HWY 310 NORTH FROM WARREN TO EAST SIDE OF RR TRACK OVERPASS, THEN WALK NORTH CA. 0.5 MILE.

Township\Range:	Section:	TRS comments:
008S024E	15	NW4

This site is about ½ to 1.5 miles From application # 5034 T8S, R24E, Sec 16 Part of the ridge that runs SE to NW through Section 15 cuts in to Section 16 so there appears to be similar habitat in the NE4 of Sec. 16. The vegetation survey stipulation will be added to this tract's lease.

Species of Special Concern: T08S, R24E, Section 16, Carbon County
App# 5034

Scientific Name: ASTRAGALUS GRAYI
Common Name: GRAY'S MILKVETCH

Global Rank G4?
State Rank: S2

Forest Service status:
USFWS Endangered Species Act Status:
BLM Status:

Occurrence Type:

Species occurrence data:
<100 PLANTS (100-1000 STEMS).

Last observation: 1991-06-13

Size (acres): 1

General site description:
DRY, SILTY, LOWER SLOPE; WITH ARTEMISIA TRIDENTATA, ARTEMISIA PEDATIFIDA AND AGROPYRON SPICATUM.

Land owner/manager
STATE LAND - UNDESIGNATED

Comments:
ROAD AND LIVESTOCK DISTURBANCE.

Information source
LESICA, PETER. DIVISION OF BIOLOGICAL SCIENCES, UNIVERSITY OF MONTANA, MISSOULA, MT 59812.

Survey site name: JACK CREEK

County: CARBON

USGS quadrangle: WADE

Precision: S

Elevation (ft): 4200

Location:
ALONG US 310 CA. 9 MILES NORTH OF WARREN, CA. 1 MILE NORTH OF RR TRACK OVERPASS.

Township\Range:	Section:	TRS comments:
008S024E	16	SE4

This site is located on
Application # 5034 T8S, R24E Sec. 16.
The vegetation survey stipulation will be placed
on this tracts lease (for Gray's milkvetch)

Species of Special Concern: T08S, R24E, Section 16, Carbon County
App# 5034

Scientific Name: ASTRAGALUS GRAYI

Common Name: GRAY'S MILKVETCH

Global Rank G4?
State Rank: S2

Forest Service status:
USFWS Endangered Species Act Status:
BLM Status:

Occurrence Type:

Species occurrence data:
CA. 500 PLANTS, FLOWERING.

Last observation: 1993-06-16

Size (acres): 2

General site description:
OPEN, MOIST, ROLLING UPLANDS BOTTOM. SHALE PARENT MATERIAL, HEAVY, SANDY CLAY SOIL. ASSOCIATED SPECIES: ARTEMISIA PEDATIFIDA, ATRIPLEX NUTTALLII, SARCOBATUS VERMICULATUS, ARTEMISIA TRIDENTATA, AGROPYRON SMITHII.

Land owner/manager
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source
LESICA, PETER. DIVISION OF BIOLOGICAL SCIENCES, UNIVERSITY OF MONTANA, MISSOULA, MT 59812.

Survey site name: JACK CREEK

County: CARBON

USGS quadrangle: WADE

Precision: S

Elevation (ft): 4200

Location:
TAKE HWY 310 FROM SOUTH OF BRIDGER; PROCEED SOUTH UNTIL JUST BEFORE ROAD CROSSES RAILROAD. PARK AND HIKE WEST.

Township\Range:	Section:	TRS comments:
008S024E	21	NE4

This site is located ~ 1/4 to 1 1/4 mile away From Application # 5034, T8S, Range 24E, Sec. 16. This tract proposed For oil & gas leasing also has a Gray's milkvetch site (similar habitat). The vegetation survey stipulation will be added to this tract's lease.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T08S, R24E, Section 16, Carbon County
App# 5034

Scientific Name: CLEOME LUTEA

Common Name: YELLOW BEE PLANT

Global Rank G5

State Rank: S1

Forest Service status:

USFWS Endangered Species Act Status:

BLM Status: WATCH

Occurrence Type:

Species occurrence data:

1993: LATE BLOOM, SEED SET. 1994: 20 PLANTS, 1 SUBPOPULATION (2 PLANTS) UPSTREAM. ALL FLOWERING.

Last observation: 1994-06-12

Size (acres): 1

General site description:

DRY, OPEN, SANDY-SILTY SHALE, LOWERSLOPE TERRACE. ASSOCIATED SPECIES: AGROPYRON SMITHII, MELILOTUS OFFICINALIS, BROMUS TECTORUM, ARTEMISIA TRIDENTATA, SARCOBATUS VERMICULATUS, POPULUS DELTOIDES, BOUTELOUA GRACILIS, HALOGETON GLOMERATUS, SITANION HYSTRIX, ATRIPLEX GARDNERI.

Land owner/manager

BLM: BILLINGS FIELD OFFICE

Comments:

OBSERVED BY D. HEINZE AND J. CHESSON. THIS POPULATION NEEDS FURTHER INVESTIGATION; COULD BE SUBPOPULATION OF HUNTERS CREEK / COTTONWOOD CREEK POPULATION. CATTLE GRAZING IN AREA. 1994: CATTLE USE OBSERVED BY J. MCCARTHY AND G. THOMPSON.

Information source

HEINZE, DONALD. [FORMER STATE BOTANIST WITH BUREAU OF LAND MANAGEMENT, BILLINGS]. 4160 NEW HOPE ROAD, GRANTS PASS, OR.

Survey site name: WEATHERMAN DRAW

County: CARBON

USGS quadrangle: HUNTERS CREEK

Precision: M

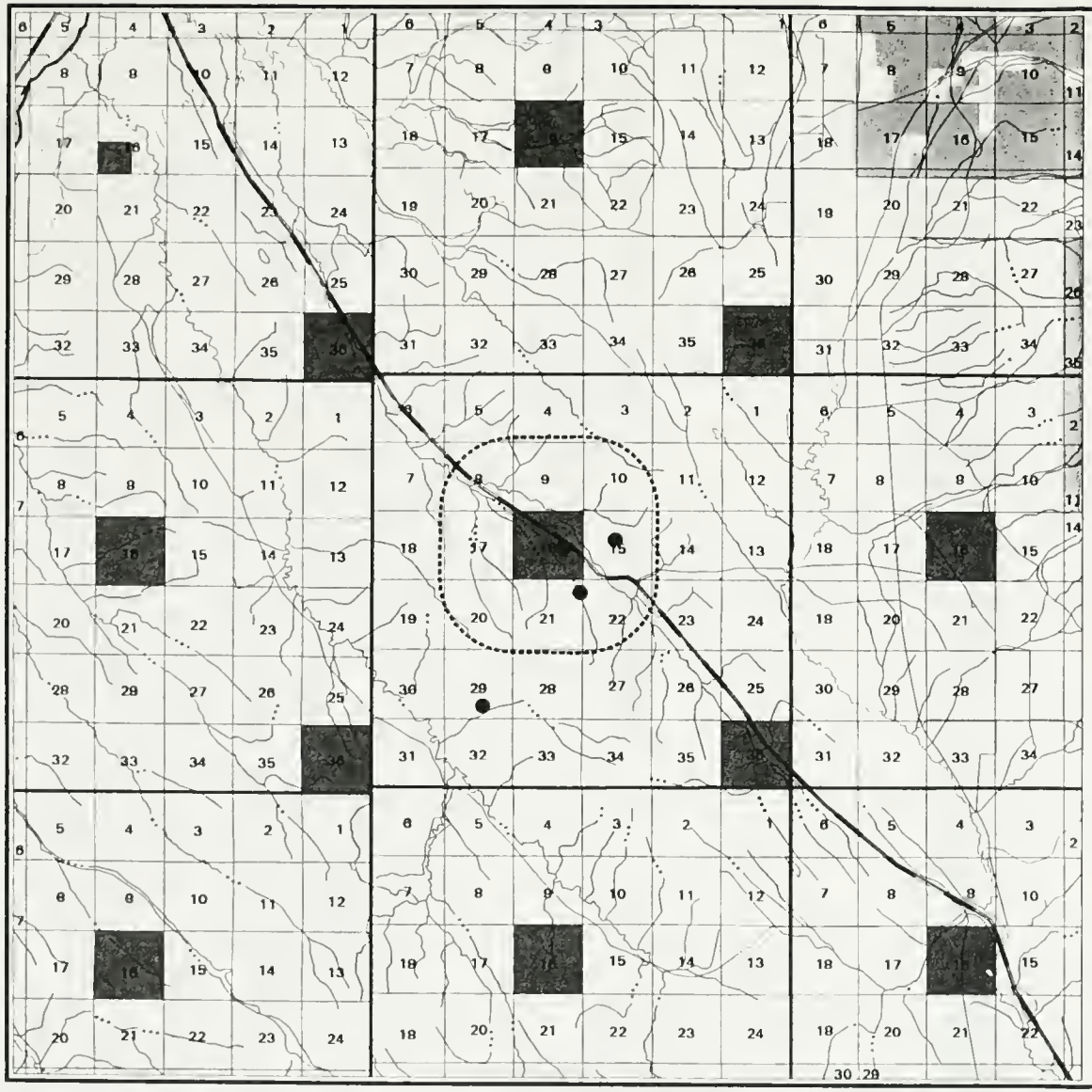
Elevation (ft): 4100

Location:

GO CA. 9.5 MILES FROM WARREN TO THE INTERSECTION OF WEATHERMAN DRAW ROAD. (MAKI CABIN NO LONGER EXISTS.) GO 0.3 MILE NORTHEAST ON WEATHERMAN DRAW ROAD; WALK 0.3 MILE FURTHER. POPULATION ON NORTH SIDE OF ROAD, SOMETIMES OBSCURED BY ARTEMISIA TRIDENTATA.

Township\Range:	Section:	TRS comments:
008S024E	29	SW4SE4

Application # 5034 T8S R24E Sec. 16
is ~ 1 3/4 to 2 3/4 mile From this site, Topography is not as steep or high on this tract in comparison with the site. Howeres, this tract is Known to have an associated plant Artemisia Tridentata. The vegetation survey stipulation has already been proposed For this tract For Gray's Milkvetch and Obscure Evening Primrose. Yellow bee plant will be included in this survey requirement.



Montana Species of Special Concern
T08S, R24E, Sec. 16, Carbon County
App# 5034

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles: 0 1 2 3 4 5 6 7

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January 09, 2001

MONTANA Natural Heritage Program

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(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T02N, R60E, Carter County
App# 5001-5002

Scientific Name: PENSTEMON ANGUSTIFOLIUS

Common Name: NARROWLEAF PENSTEMON

Global Rank G5 **Forest Service status:**

State Rank: S2 **USFWS Endangered Species Act Status:**

BLM Status: WATCH

Occurrence Type:

Species occurrence data:

OCCASIONAL IN SUBOPTIMAL HABITAT.

Last observation: 1997-06-09 **Size (acres):** 1

General site description:

LOOSE SAND ERODED FROM SMALL OUTCROPS AT VALLEY EDGE.

Land owner/manager

BLM: MILES CITY FIELD OFFICE

Comments:

Information source

VANDERHORST, J., S. V. COOPER, AND B. L. HEIDEL. 1998. BOTANICAL AND VEGETATION SURVEY OF CARTER COUNTY, MONTANA. UNPUBLISHED REPORT TO BUREAU OF LAND MANAGEMENT. MONTANA NATURAL HERITAGE PROGRAM, HELENA. 116 PP. + APP.

Survey site name: HORSE CREEK

County: CARTER

USGS quadrangle: FLASTED HILL

Precision: S

Elevation (ft): 3220

Location:

3.5 MILES NORTH OF MILL IRON AT VALLEY EDGE ABOVE HORSE CREEK.

Township\Range:	Section:	TRS comments:
002N060E	26	SE4SE4

Application # 5001 T2N, R60E Sec. 36 is ~adjacent to this site. The tract appears to have similar habitat, ie. topography, elevation, intermittent streams. The vegetation survey stipulation will be added to this tract's lease.

Application # 5002 T2N R60E, Sec 16 is ~1 3/4 to 2 3/4 miles From this site. It appears to have similar habitat. The vegetation survey stipulation will be added to this tracts' lease.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T02N, R60E, Carter County
App# 5001-5002

Scientific Name: PHLOX ANDICOLA

Common Name: PLAINS PHLOX

Global Rank G4

State Rank: S2

Forest Service status:

USFWS Endangered Species Act Status:

BLM Status: WATCH

Occurrence Type:

Species occurrence data:

SPARSE

Last observation: 1997-06-09

Size (acres): 1

General site description:

LOOSE SAND ERODED FROM SMALL OUTCROPS AT VALLEY EDGE AND WIDELY SCATTERED ALONG CREEK BELOW OUTCROPS.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source

VANDERHORST, J., S. V. COOPER, AND B. L. HEIDEL. 1998. BOTANICAL AND VEGETATION SURVEY OF CARTER COUNTY, MONTANA. UNPUBLISHED REPORT TO BUREAU OF LAND MANAGEMENT. MONTANA NATURAL HERITAGE PROGRAM, HELENA. 116 PP. + APP.

Survey site name: HORSE CREEK

County: CARTER

USGS quadrangle: FLASTED HILL

Precision: S

Elevation (ft): 3120

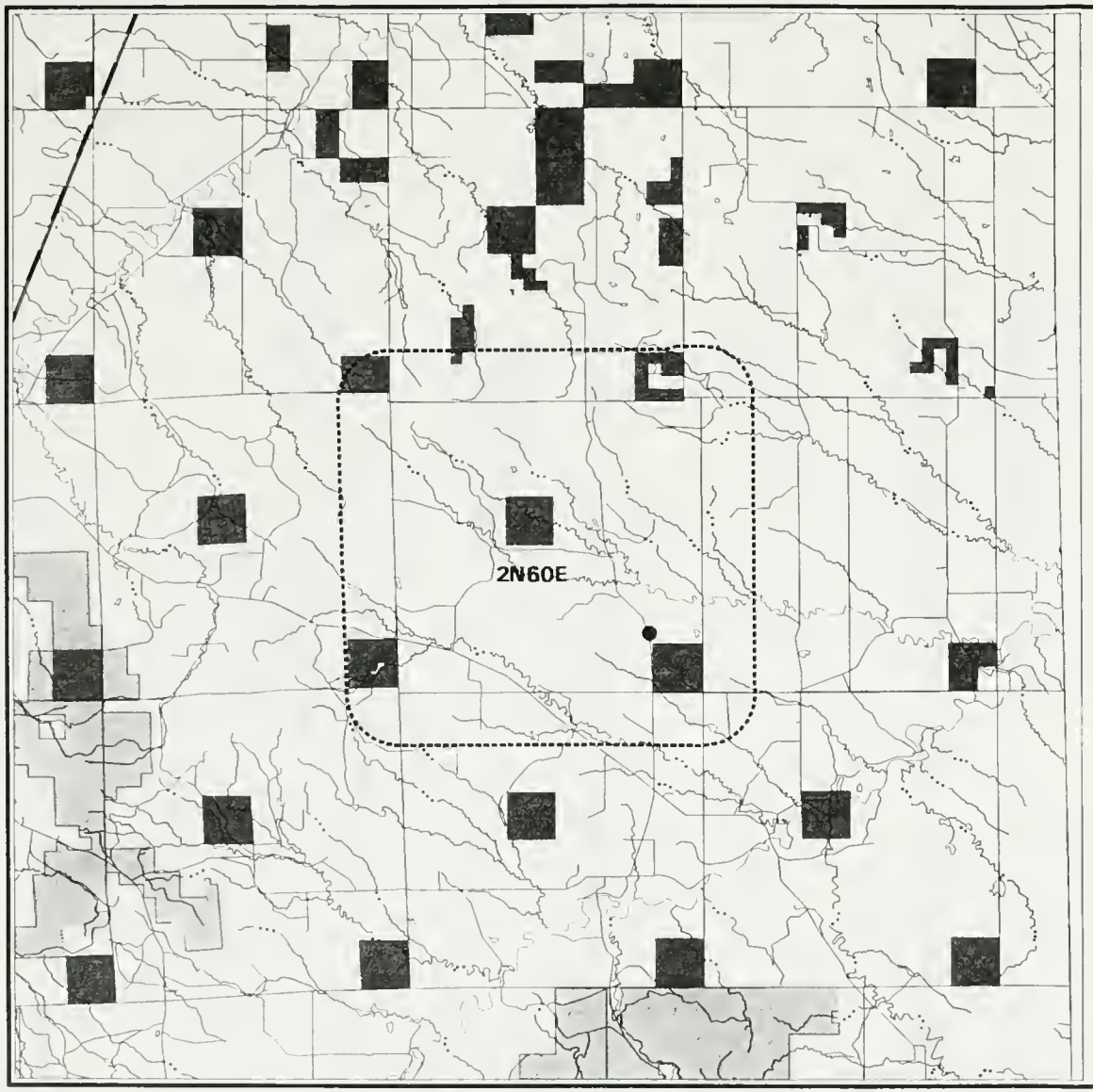
Location:

BETWEEN 3.5 AND 4.5 MILES NORTH OF MILL IRON AT VALLEY EDGE AND NORTH SIDE OF CREEK.

Township\Range:	Section:	TRS comments:
002N060E	26	SE4SE4; 23 NE4SW4

Application # 5001 T2N, R60E, Sec. 36 is ~adjacent to this site. The tract appears to have similar habitat, ie. topography, elevation, intermittent streams. The vegetation survey stipulation will be added to this tract's lease.

Application # 5002 T2N, R60E, Sec. 16 is ~ 1 3/4 to 2 3/4 miles From this site. It appears to have similar habitat. The Vegetation survey stipulation will be added to this tracts' lease.



Montana Species of Special Concern
T02N, R60E, Carter County
App# 5001 - 5002

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
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Scale of Miles 0 2 4 6 8 10

Request nhp5683g
January 09, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
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Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T25N, R15-16E, Chouteau County
App# 5036-5041

Scientific Name: BUTEO REGALIS

Common Name: FERRUGINOUS HAWK

Global Rank G4 **Forest Service status:**

State Rank: S3B,SZN **USFWS Endangered Species Act Status:**

BLM Status: SPECIAL STATUS

Occurrence Type: OCCUPIED BREEDING HABITAT

Species occurrence data:

BREEDING POPULATION OF AT LEAST 1 PAIR. THE BOUNDARIES FOR THIS OCCURRENCE WERE DRAWN TO ENCOMPASS 14 ALTERNATE NEST SITES REPORTED IN THE GENERAL AREA. (SPECIFIC OBSERVATION DATA AVAILABLE FROM MTNHP.)

Last observation: 1997-07- **Size (acres):**

General site description:

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); STATE LAND - UNDESIGNATED; BLM: LEWISTOWN FIELD OFFICE

Comments:

FULL EXTENT OF OCCUPIED BREEDING HABITAT IS UNKNOWN.

Information source

DUBOIS, KRISTI. REGION 4, MONTANA DEPARTMENT OF FISH, WILDLIFE & PARKS. 4600 GIANT SPRINGS ROAD, GREAT FALLS, MT 59406. 406-454-5840.

Survey site name: ARROW & FLAT CREEKS

County: CHOUTEAU

USGS quadrangle: (EXTENDS OVER MULTIPLE QUADS)

Precision: G

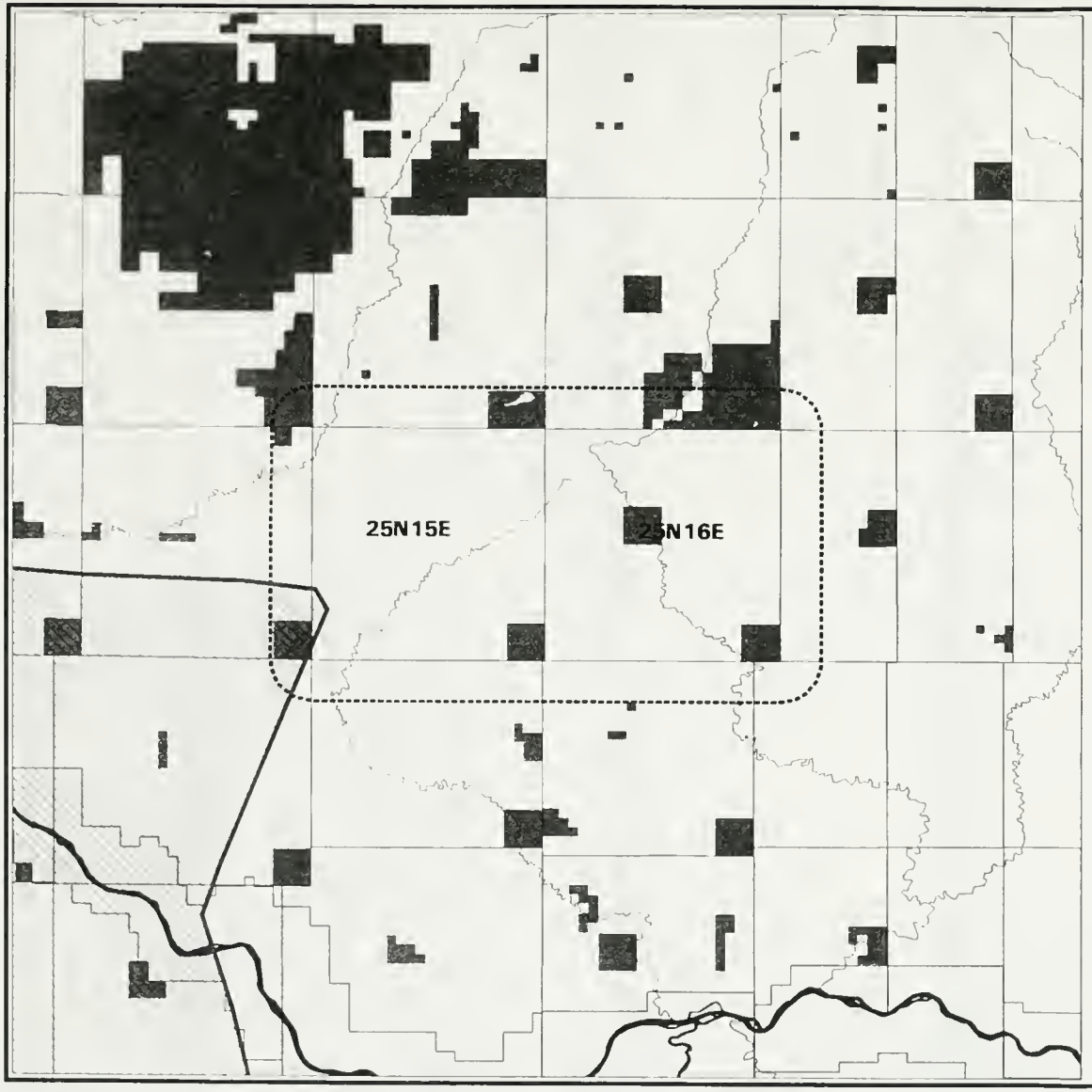
Elevation (ft):

Location:

CRESCENT-SHAPED AREA GENERALLY NORTH OF SQUARE BUTTE AND SOUTH OF VIRGELLE AND WEST OF THE MISSOURI RIVER.

Township\Range:	Section:	TRS comments:
025N014E	25	ARBITRARY CENTROID

The Chouteau County tracts do not Fall in this Ferruginous hawk area.
- no impact -



Montana Species of Special Concern
T25N, R15-16E, Chouteau County
App# 5036 - 5041

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Birds

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

------ Search Area

- Species locations depicted outside the search area have imprecisely-known locations and may actually occur within the search area.
- Not all legend items may occur on map.
- This map displays management status, which may differ from ownership.
- Features shown on this map do not imply public access to any lands.
- Refer to accompanying documentation for full explanation of map features.

Scale of Miles 0 2 4 6 8 10 12 14

Request nhp5683
January 09, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-1029

11-Jan-01

Montana Natural Heritage Program

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4

State Rank: S3B,S3N

Forest Service status: THREATENED

USFWS Endangered Species Act Status: LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999

Size (acres):

General site description:

NEST SITE AND TERRITORY.

Land owner/manager

HELENA NATIONAL FOREST, HELENA RANGER DISTRICT

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 1 1PP.

Survey site name: COCHRAN GULCH

County: LEWIS AND CLARK

USGS quadrangle: UPPER HOLTER LAKE

Precision: M

Elevation (ft): 3800

Location:

ON THE NORTHEAST SHORE OF MISSOURI RIVER, CA. 0.5 MILE NORTH OF BEAVER CREEK, CA. 4 MILES UPSTREAM FROM GATES OF THE MOUNTAINS BOAT DOCK.

Township\Range:	Section:	TRS comments:
0I2N002W	18	

Application #5027 T12N R3W Sec. 36 is about 2-3 miles From this site. The missouri River does not cut this tract. It lies outside the 1-mile buffer zone For eagle nests recommended by Dennis Flath (FWP) in previous conversations on oil and gas leasing & related activities. Except for the presence of the Missouri River, — no impact —
The above notation also applies to application # 5033, T13N, R3W Sec. 36. However due to their locations these tracts have the sensitive areas stipulation applied on # 5027, and the Gates of the Mountains Wilderness / Bear tooth WMA / Sleeping Giant and Sheep Creek WSA sensitive areas stipulation applied on #5033.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4

State Rank: S3B,S3N

Forest Service status: THREATENED

USFWS Endangered Species Act Status: LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999

Size (acres):

General site description:

NEST SITE AND TERRITORY.

Land owner/manager

BLM: BUTTE FIELD OFFICE; HELENA NATIONAL FOREST, HELENA RANGER DISTRICT

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: HAUSER DAM

County: LEWIS AND CLARK

USGS quadrangle: UPPER HOLTER LAKE

Precision: M

Elevation (ft): 3800

Location:

JUST DOWNSTREAM FROM HAUSER DAM.

Township\Range:	Section:	TRS comments:
012N002W	29	

Application # 5027, T12N, R3W, Sec. 36 is ~1 1/4 to 2 1/4 miles from this site. The river does not cut this tract. It lies outside the 1 mile buffer zone recommended by Dennis Flath in previous conversations. — No impact —

However due to this tracts location the sensitive areas stipulation will be utilized for it.

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: FALCO PEREGRINUS
Common Name: PEREGRINE FALCON

Global Rank G4
State Rank: S1S2B,S

Forest Service status: DESIGNATION PENDING
USFWS Endangered Species Act Status:
BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:
PEREGRINE HISTORIC EYRIE (HIGH POTENTIAL FOR RE-OCCUPANCY).

Last observation:

Size (acres): 160

General site description:
UNKNOWN.

Land owner/manager
BLM: BUTTE FIELD OFFICE

Comments:

Information source
FLATH, DENNIS L. MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS, WILDLIFE RESEARCH BUREAU, FWP BUILDING, MONTANA STATE UNIVERSITY CAMPUS, 1400 SOUTH 19TH STREET, BOZEMAN, MT 59717-0001. 406/944-6354.

Survey site name: HAUSER DAM
County: LEWIS AND CLARK
USGS quadrangle: UPPER HOLTER LAKE
Precision: M
Elevation (ft): 4000

Location:
ABOVE THE WEST BANK OF THE MISSOURI RIVER, ABOUT 1 MILE DOWNSTREAM FROM HAUSER DAM.

Township\Range:	Section:	TRS comments:
012N002W	30	N CENTER

Application # 5027 T12N, R3W Sec. 36 is ~ 1/2 to 1.5 miles away from this site. Apparently it is not currently occupied. - No impact -
However, due to its location, the sensitive areas stipulation will be utilized on this tract.

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4
State Rank: S3B,S3N

Forest Service status: THREATENED
USFWS Endangered Species Act Status: LT
BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999 **Size (acres):** 4000

General site description:

NEST SITE AND TERRITORY

Land owner/manager

GATES OF THE MOUNTAINS GAME PRESERVE; HELENA NATIONAL FOREST, HELENA RANGER DISTRICT

Comments:

MAY BE SECOND NEST SITE AROUND WILLOW CREEK.

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: GATES

County: LEWIS AND CLARK

USGS quadrangle: UPPER HOLTER LAKE

Precision: M

Elevation (ft): 3800

Location:

ON THE EAST SIDE OF UPPER HOLTER LAKE, IN TIMBER AT THE NORTH EDGE OF AMERICAN BAR, REACHED BY DIRT ROAD FROM NELSON, MT.

Township\Range:	Section:	TRS comments:
012N003W	1	W2; 11 (1990)

Application # 5033 T 13 N, R3W, Sec. 36 is ~ 1/2 to 1.5 miles From this site. It is also along the Missouri River

Due to its location close to the Gates of the Mountains Wilderness, the Gates of the Mountains Wilderness / Beartooth WMA/ Sleeping Giant and Sheep Creek WSA sensitive area stipulation will be utilized on this tract.

11-Jan-01 **Montana Natural Heritage Program**

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: FALCO PEREGRINUS
Common Name: PEREGRINE FALCON

Global Rank G4
State Rank: S1S2B,S

Forest Service status: DESIGNATION PENDING
USFWS Endangered Species Act Status:
BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:
ACTIVE EYRIE. 1994: FLEDGED 2. 1995: FLEDGED 0. 1997,1998,1999: FLEDGED 1.

Last observation: 1999

Size (acres):

General site description:

Land owner/manager
HELENA NATIONAL FOREST, HELENA RANGER DISTRICT

Comments:
EXACT CLIFF NOT LOCATED.

Information source
SUMNER, J. AND R. ROGERS. 1999. MONTANA PEREGRINE FALCON SURVEY. PREPARED FOR MONTANA FISH, WILDLIFE & PARKS. 27PP. (PLUS MAPS AND PHOTOS).

Survey site name: MERIWETHER

County: LEWIS AND CLARK

USGS quadrangle: UPPER HOLTER LAKE

Precision: M

Elevation (ft): 3600

Location:
MISSOURI RIVER/HOLTER LAKE, IN THE VICINITY OF MERIWETHER PICNIC AREA.

Township\Range:	Section:	TRS comments:
013N002W	19	

Application #5033 T13N, R3W, Sec. 36 is ~ 1 to 3 miles From this site. It is also cut by the Missouri River and has steep topography and trees. Due to its proximity to the Gates of the Mountains Wilderness, the Gates of the Mountains Wilderness / Beartooth WMA, Sleeping Giant and Sheep Creek WSA sensitive area stipulation will be utilized on this tract.

Application # 5029 T13N R3W, Sec. 13 Corners with the section For this site location, so it is ~0 to 2 miles away. Due to its location adjoining the Beartooth WMA, the Beartooth WMA / Sleeping Giant and Sheep Creek WSA / Gates of the Mountains Wilderness sensitive areas stipulation will be utilized on this tract.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4 **Forest Service status:** THREATENED

State Rank: S3B,S3N **USFWS Endangered Species Act Status:** LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999 **Size (acres):**

General site description:

NEST SITE AND TERRITORY.

Land owner/manager

SLEEPING GIANT AREA OF CRITICAL ENVIRONMENTAL CONCERN; BLM: BUTTE FIELD OFFICE; BEARTOOTH WILDLIFE MANAGEMENT AREA

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 1 1PP.

Survey site name: BEARTOOTH

County: LEWIS AND CLARK

USGS quadrangle: BEARTOOTH MOUNTAIN

Precision: M

Elevation (ft): 3700

Location:

ALONG HOLTER RESERVOIR, CA. 4 RIVER MILES DOWNSTREAM FROM THE GATES OF THE MOUNTAINS AND CA. 1.5 MILES UPSTREAM FROM COTTONWOOD CREEK.

Township\Range:	Section:	TRS comments:
013N003W	2	

Application # 5028 T13N, R3W, Sec. 9 is ~1 1/4 to 2 1/2 miles away From this site. The Missouri River does not cut this tract, but there is steep topography and trees on the tract. Due to its location within the Sleeping Giant and Sheep Creek Wilderness Study Area, the Sleeping Giant and Sheep Creek WSA / Beartooth WMA/Gates of the Mountains Wilderness sensitive areas stipulation will be utilized on this tract. It will also be utilized on Application # 5030 T13N, R3W, Sec. 16 which adjoins the WSA and would be about ~1 1/4 to ~2 1/4 miles away. It is not cut by the Missouri River.

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4

State Rank: S3B,S3N

Forest Service status: THREATENED

USFWS Endangered Species Act Status: LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE AND PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999

Size (acres):

General site description:

Land owner/manager

STATE LAND - UNDESIGNATED; HELENA NATIONAL FOREST, HELENA RANGER DISTRICT; GATES OF THE MOUNTAINS GAME PRESERVE

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 1 1PP.

Survey site name: FIELDS GULCH

County: LEWIS AND CLARK

USGS quadrangle: UPPER HOLTER LAKE

Precision: M

Elevation (ft): 3600

Location:

ALONG UPPER HOLTER RESERVOIR, NEAR FIELDS GULCH IN THE GATES OF THE MOUNTAINS.

Township\Range:	Section:	TRS comments:
013N003W	36	

Application # 5033 T13N, R3W Sec. 36 contains this site. Due to its proximity to the Gates of the Mountains Wilderness, the Gates of the Mountains Wilderness / Beartooth WMA / Sleeping Giant and Sheep Creek WSA sensitive area stipulation will be utilized on this tract.

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: BIRD ROOKERY
Common Name: BIRD ROOKERY

Global Rank Z
State Rank: Z

Forest Service status:
USFWS Endangered Species Act Status:
BLM Status:

Occurrence Type: BIRD ROOKERY

Species occurrence data:
GREAT BLUE HERON. 1999: 14 active nests. CA. 40 NESTS.

Last observation: 1999-06-09

Size (acres):

General site description:
PONDEROSA PINE/DOUGLAS FIR WOODS.

Land owner/manager
SLEEPING GIANT AREA OF CRITICAL ENVIRONMENTAL CONCERN; BLM: BUTTE FIELD OFFICE

Comments:
OBSERVED BY GAYLE JOSLIN, DFWP.

Information source
ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: HOLTER LAKE

County: LEWIS AND CLARK

USGS quadrangle: BEARTOOTH MOUNTAIN

Precision: M

Elevation (ft): 3700

Location:
ON SHORE OF HOLTER LAKE, JUST WEST OF INDIAN TRAIL RIDGE.

Township\Range:	Section:	TRS comments:
014N003W	34	SW4

Application # 5028 T13N, R3W, Sec. 9 is ~1 1/4 to 2 1/4 miles From this site. The Missouri River does not cut (run thru) this tract. It has higher elevation, but does have trees. Dissimilar habitat & distance - No impact.

However due to this tracts location within the Sleeping Giant and Sheep Creek WSA, the Sleeping Giant and Sheep Creek WSA / Beartooth WMA / Gates of the Mountains sensitive area stipulation will be utilized on this tract.

Species of Special Concern: T12-13N, R03W, Lewis & Clark County
App# 5023-5033

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4

State Rank: S3B,S3N

Forest Service status: THREATENED

USFWS Endangered Species Act Status: LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE AND PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999

Size (acres):

General site description:

Land owner/manager

BEARTOOTH WILDLIFE MANAGEMENT AREA

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 1 PP.

Survey site name: COTTONWOOD CREEK

County: LEWIS AND CLARK

USGS quadrangle: BEARTOOTH MOUNTAIN

Precision: M

Elevation (ft): 3650

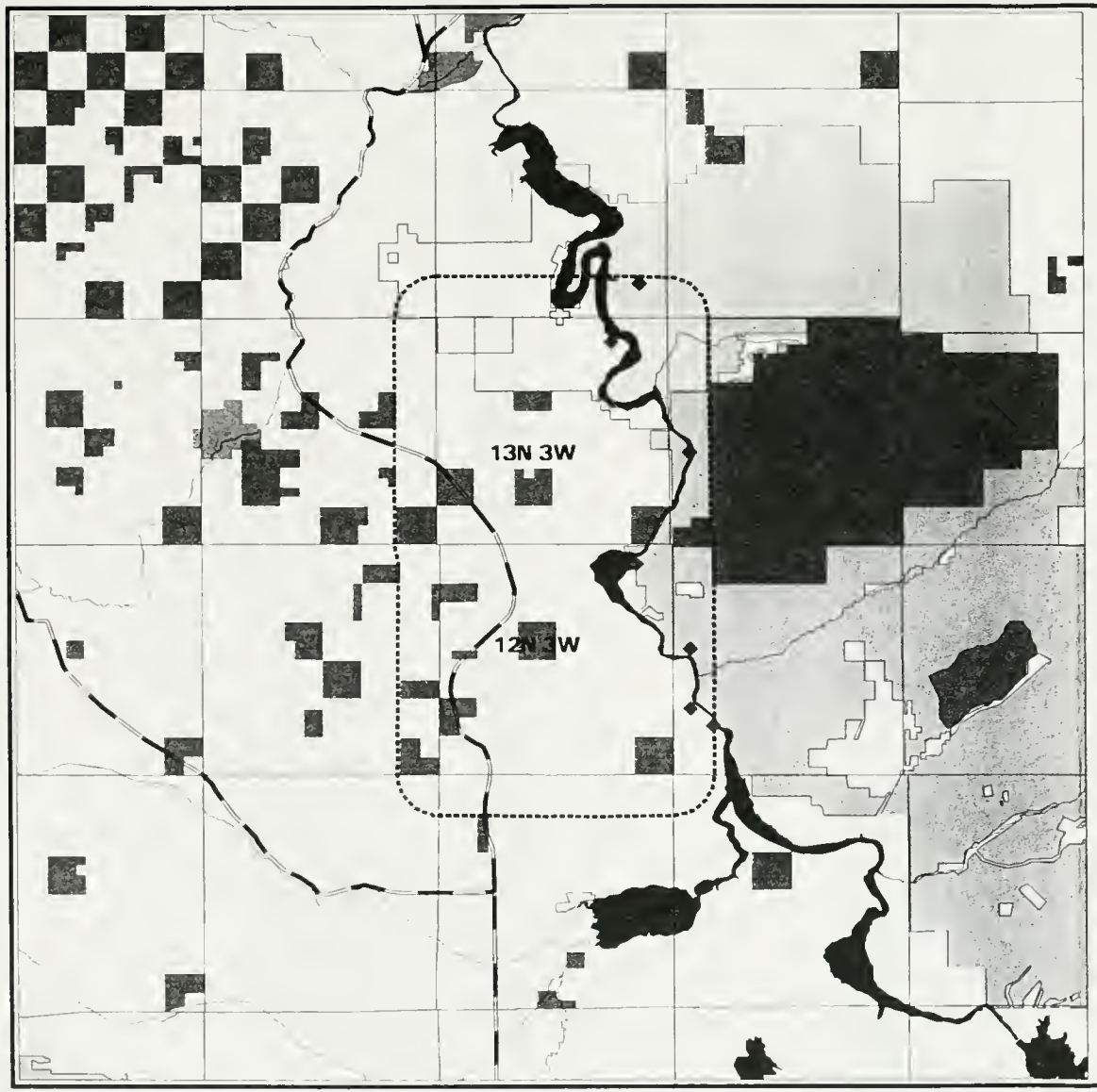
Location:

ABOUT 1 MILE UP COTTONWOOD CREEK FROM ITS MOUTH, ON THE BEARTOOTH WMA ALONG HOLTER RESERVOIR.

Township\Range:	Section:	TRS comments:
014N003W	36	

Application Numbers 5028 T13N R3W Sec 9
5029 T13N R3W Sec. 13
5030 T13N R3W Sec. 16

are ~2-3 miles from this site. App. #'s 5005 and 5006 T14N R2W Sec. 6 & 8
are ~ 3½ to 5½ miles from this site.
Due to their location either adjacent to or within the Sleeping Giant & Sheep Creek Wilderness study area or adjacent to the Beartooth WMA, the Sleeping Giant and Sheep Creek WSA/ Beartooth WMA/ Gates of the Mountains sensitive areas stipulation will be utilized on these tracts.



Montana Species of Special Concern
T12-13N, R03W, Lewis & Clark Co.
App# 5023-5033

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

- Search Area

- Species locations depicted outside the search area have imprecisely-known locations and may actually occur within the search area.
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- Features shown on this map do not imply public access to any lands.
- Refer to accompanying documentation for full explanation of map features.

Scale of Miles 0 2 4 6 8 10 12

Request nhp5683p
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009 nrishp@state.mt.us

11-Jan-01 **Montana Natural Heritage Program**

Species of Special Concern: **T14N, R02W; T15N, R02-03W, Lewis & Clark County App# 5005-5006, 5008-5014**

Scientific Name: ONCORHYNCHUS CLARKI LEWISI

Common Name: WESTSLOPE CUTTHROAT TROUT

Global Rank G4T3 **Forest Service status:** SENSITIVE

State Rank: S3 **USFWS Endangered Species Act Status:**

BLM Status: SPECIAL STATUS

Occurrence Type: AGGREGATED OCCURRENCE - OCCUPIED HABITAT

Species occurrence data:

APPROXIMATE NUMBERS OF STREAMS: - WITH PURE POPULATIONS = 12; - WITH POTENTIALLY PURE POPULATIONS = 1; - WITH 90-99% PURE POPULATIONS = 2. IDENTIFIED 'POPULATION AGGREGATES':NONE.

Last observation: **Size (acres):**

General site description:

POPULATIONS TESTED PURE IN: DUTCHMAN, ELKHORN, N FK GURNETT, HALL, KADY GULCH, McCLELLAN, PRICKLY PEAR, QUARTZ, ROOSTER BILL, SKELLY GUCH, STAUBACH, & WHITE'S GULCH CREEKS.

Land owner/manager

Comments:

FOR INFORMATION ON SPECIFIC POPULATIONS, CONTACT MONTANA FISH, WILDLIFE & PARKS OR QUERY THE MONTANA RIVERS INFORMATION SYSTEM @ http://nris.state.mt.us/wis/mris1.html.

Information source

MONTANA DEPARTMENT OF FISH, WILDLIFE & PARKS. 1999. MEMORANDUM OF UNDERSTANDING AND CONSERVATION AGREEMENT FOR WESTSLOPE CUTTHROAT TROUT (ONCORHYNCHUS CLARKI LEWISI) IN MONTANA. 28PP.

Survey site name: MISSOURI BASIN - WOLF CR TO THREE FORKS

County: JEFFERSON; BROADWATER; LEWIS AND CLARK; CASCADE

USGS quadrangle: (EXTENDS OVER MULTIPLE QUADS)

Precision: G

Elevation (ft):

Location:

THIS OCCURRENCE INCLUDES ALL STREAM SEGMENTS WITHIN THE MISSOURI RIVER WATERSHED (THREE FORKS TO WOLF CREEK) THAT SUPPORT POPULATIONS THAT ARE 90% OR MORE PURE.

Township\Range: **Section:** **TRS comments:**

All tracts in Cascade County and Lewis and Clark County on the March 6, 2001 MT Oil and Gas Lease sale list will have a sensitive areas stipulation applied either F-1 or F-3. These trout would be covered under this stipulation.

Species of Special Concern: T14N, R02W; T15N, R02-03W, Lewis & Clark County
App# 5005-5006, 5008-5014

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4 **Forest Service status:** THREATENED

State Rank: S3B,S3N **USFWS Endangered Species Act Status:** LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999 **Size (acres):**

General site description:

NEST SITE AND TERRITORY.

Land owner/manager

SLEEPING GIANT AREA OF CRITICAL ENVIRONMENTAL CONCERN; BLM: BUTTE FIELD OFFICE; BEARTOOTH WILDLIFE MANAGEMENT AREA

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: BEARTOOTH

County: LEWIS AND CLARK

USGS quadrangle: BEARTOOTH MOUNTAIN

Precision: M

Elevation (ft): 3700

Location:

ALONG HOLTER RESERVOIR, CA. 4 RIVER MILES DOWNSTREAM FROM THE GATES OF THE MOUNTAINS AND CA. 1.5 MILES UPSTREAM FROM COTTONWOOD CREEK.

Township\Range:	Section:	TRS comments:
013N003W	2	

Application # 5028 T13N, R3W, Sec. #9 is ~1 1/4 to 2 1/2 miles away from this site. The Missouri River does not cut this tract, but there is steep topography and trees on the tract. Due to it's location within the Sleeping Giant and Sheep Creek Wilderness Study Area, the Sleeping Giant and Sheep Creek WSA / Beartooth WMA / Gates of the Mountains sensitive areas stipulation will be utilized on this tract. It will also be utilized on Application # 5030 T13N, R3W, Sec. 16 which adjoins the WSA and would be about ~1 1/4 to 2 1/4 miles away. It is not cut by the Missouri River.

Species of Special Concern: T14N, R02W; T15N, R02-03W, Lewis & Clark County
App# 5005-5006, 5008-5014

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4

State Rank: S3B,S3N

Forest Service status: THREATENED

USFWS Endangered Species Act Status: LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999

Size (acres):

General site description:

NEST SITE AND TERRITORY.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

PRECISE LOCATION WITHIN SECTION NOT KNOWN.

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: OXBOW RANCH

County: LEWIS AND CLARK

USGS quadrangle: SHEEP CREEK

Precision: M

Elevation (ft): 3600

Location:

EXIT I-15 AT WOLF CREEK AND FOLLOW FRONTAGE ROAD SOUTH AND EAST TO OXBOW RANCH TURNOFF, THEN SOUTH INTO RANCH.

Township\Range:	Section:	TRS comments:
014N003W	8	

Application # 5014 T15N, R3W Sec. 16 is ~ 4 to 6 miles away From this site. Other tracts are Farther away. - No impact -
However, due to the location of this tract southwest of Craig, MT in central Lewis and Clark County, the sensitive areas stipulation will be applied to this tract.

Species of Special Concern: **T14N, R02W; T15N, R02-03W, Lewis & Clark County**
App# 5005-5006, 5008-5014

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4
State Rank: S3B,S3N

Forest Service status: THREATENED
USFWS Endangered Species Act Status: LT
BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE AND PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999 **Size (acres):**

General site description:

Land owner/manager

BEARTOOTH WILDLIFE MANAGEMENT AREA

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 1 1PP.

Survey site name: COTTONWOOD CREEK

County: LEWIS AND CLARK

USGS quadrangle: BEARTOOTH MOUNTAIN

Precision: M

Elevation (ft): 3650

Location:

ABOUT 1 MILE UP COTTONWOOD CREEK FROM ITS MOUTH, ON THE BEARTOOTH WMA ALONG HOLTER RESERVOIR.

Township\Range:	Section:	TRS comments:
014N003W	36	

Application Numbers 5028 T13N, R3W, Sec 9
5029 T13N, R3W, Sec 13
5030 T13N, R3W, Sec 16 are ~2-3 miles From this site. App.# 5005 T14N R2W, Sec 6 are about 3½ to 5½ miles From this site. 5006 T14N R2W, Sec.
Due to their location either adjacent to or within the Sleeping Giant and Sheep Creek WSA or adjacent to the Beartooth WMA, the Sleeping Giant and Sheep Creek WSA / Beartooth WMA / Gates of the Mountains sensitive areas stipulation will be utilized on these tracts.

11-Jan-01 **Montana Natural Heritage Program**

Species of Special Concern: T14N, R02W; T15N, R02-03W, Lewis & Clark County App# 5005-5006, 5008-5014

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4 **Forest Service status:** THREATENED

State Rank: S3B,S3N **USFWS Endangered Species Act Status:** LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999 **Size (acres):** 4000

General site description:

NEST SITE IS IN SMALL RAVINE 1.8 MI ABOVE HWY TO THE SSE.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

NEST IS 1/8 MI. ABOVE ROAD. NEST LIES ON PHYS-PROV BORDER BETWEEN NR & MB.

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: CRAIG

County: LEWIS AND CLARK

USGS quadrangle: CRAIG

Precision: S

Elevation (ft): 3700

Location:

1.6 MI. SOUTH OF CRAIG TURNOFF ON SECONDARY PAVED RD.

Township\Range:	Section:	TRS comments:
015N003W	15	SE4

Application # 5014 T15N, R3W, Sec 16 is ~ 1/2 to 1.5 miles From this site. Part of the tract would be within the 1 mile buFFer For eagle nests recommended by Dennis Flath (FWP) in previous conversations on oil & gas leasing & related activities. This and its location near Craig, MT in central Lewis and Clark County have warrented DNRC-TLMD to utilize the sensitive areas stipulation on these tracts.

Application # 5013 and 5012 are located outside the 1 mile buFFer. (T15N, R3W Sec 12 and 12) However, due to their locations near Craig in central Lewis and Clark County MT, these tracts will have the sensitive areas stipulation applied.

Scientific Name: BIRD ROOKERY
Common Name: BIRD ROOKERY

Global Rank Z
State Rank: Z
Forest Service status:
USFWS Endangered Species Act Status:
BLM Status:

Occurrence Type: BIRD ROOKERY

Species occurrence data:
GREAT BLUE HERON. CA. 25 OF 30 NESTS OCCUPIED IN 1988.

Last observation: 1988
Size (acres): 0

General site description:

Land owner/manager
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:
NONE.

Information source
ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: WOLF CREEK
County: LEWIS AND CLARK
USGS quadrangle: WOLF CREEK
Precision: M
Elevation (ft): 3470

Location:
CA. 2.2 MILES ENE OF WOLF CREEK, ON LITTLE PRICKLEY PEAR CREEK, 0.3 MILE ABOVE ITS CONFLUENCE WITH THE MISSOURI RIVER.

Township\Range:	Section:	TRS comments:
015N003W	30	SE4; 31 NE4

Application # 5014 T15N, R3W Sec. 16 is ~ 1 3/4 to 2 3/4 miles away from this site. Little Prickly Pear Creek does not cut this tract, but the Missouri River does.
Distance - no impact to site.
However, due to the location of this tract southwest of Craig, MT in central Lewis and Clark County, the sensitive areas stipulation will be applied to this tract.

Species of Special Concern: T14N, R02W; T15N, R02-03W, Lewis & Clark County
App# 5005-5006, 5008-5014

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4

State Rank: S3B,S3N

Forest Service status: THREATENED

USFWS Endangered Species Act Status: LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999

Size (acres):

General site description:

NEST SITE AND TERRITORY.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: PRICKLY PEAR

County: LEWIS AND CLARK

USGS quadrangle: WOLF CREEK

Precision: M

Elevation (ft): 3600

Location:

ALONG LITTLE PRICKLY PEAR CREEK BETWEEN WOLF CREEK (TOWN) AND THE MISSOURI RIVER.

Township\Range:	Section:	TRS comments:
015N003W	31	

Application # 5014 T15N, R3W Sec. 16 is ~2 3/4 to 3 3/4 miles away from this site. Little Prickly Pear Creek does not cut this tract, but the Missouri River does.

Distance - no impact to this site.

However, due to the location of this tract southwest of Craig, MT, and a closer bald eagle site in central Lewis and Clark County, the sensitive areas stipulation will be applied to this tract.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T14N, R02W; T15N, R02-03W, Lewis & Clark County
App# 5005-5006, 5008-5014

Scientific Name: FALCO PEREGRINUS

Common Name: PEREGRINE FALCON

Global Rank G4

State Rank: S1S2B,S

Forest Service status: DESIGNATION PENDING

USFWS Endangered Species Act Status:

BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

PEREGRINE HISTORIC EYRIE (HIGH POTENTIAL FOR RE-OCCUPANCY).

Last observation:

Size (acres): 160

General site description:

UNKNOWN.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source

FLATH, DENNIS L. MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS, WILDLIFE RESEARCH BUREAU, FWP BUILDING, MONTANA STATE UNIVERSITY CAMPUS, 1400 SOUTH 19TH STREET, BOZEMAN, MT 59717-0001. 406/944-6354.

Survey site name: WOLF CREEK

County: LEWIS AND CLARK

USGS quadrangle: WOLF CREEK

Precision: M

Elevation (ft): 3800

Location:

ABOVE THE NORTH BANK OF LITTLE PRICKLY PEAR CR., ABOUT 1/2 MILE EAST OF WOLF CREEK, MT.

Township\Range:	Section:	TRS comments:
015N004W	36	SW4

Application # 5014 T15N, R3W Sec 16 is ~ 2½ to 3½ miles from this Falcon site. Little Prickly Pear Creek does not cut this tract (#5014), but the Missouri River does.

Distance - no impact to bald eagle site.

However, due to the location of this tract southwest of Craig, MT in central Lewis and Clark County and a closer bald eagle site, the sensitive areas stipulation will be applied to this tract.

Species of Special Concern: T14N, R02W; T15N, R02-03W, Lewis & Clark County
App# 5005-5006, 5008-5014

Scientific Name: FALCO PEREGRINUS
Common Name: PEREGRINE FALCON

Global Rank G4
State Rank: S1S2B,S

Forest Service status: DESIGNATION PENDING
USFWS Endangered Species Act Status:
BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:
ACTIVE EYRIE. CLIFF LOCATED BUT NOT NEST. 1997 & 1998: NONE FLEDGED. 1999: 2 FLEDGED.

Last observation: 1999

Size (acres):

General site description:

Land owner/manager
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source
SUMNER, J. AND R. ROGERS. 1999. MONTANA PEREGRINE FALCON SURVEY. PREPARED FOR MONTANA FISH, WILDLIFE & PARKS. 27PP. (PLUS MAPS AND PHOTOS).

Survey site name: WEDGE

County: CASCADE

USGS quadrangle: MID CANON

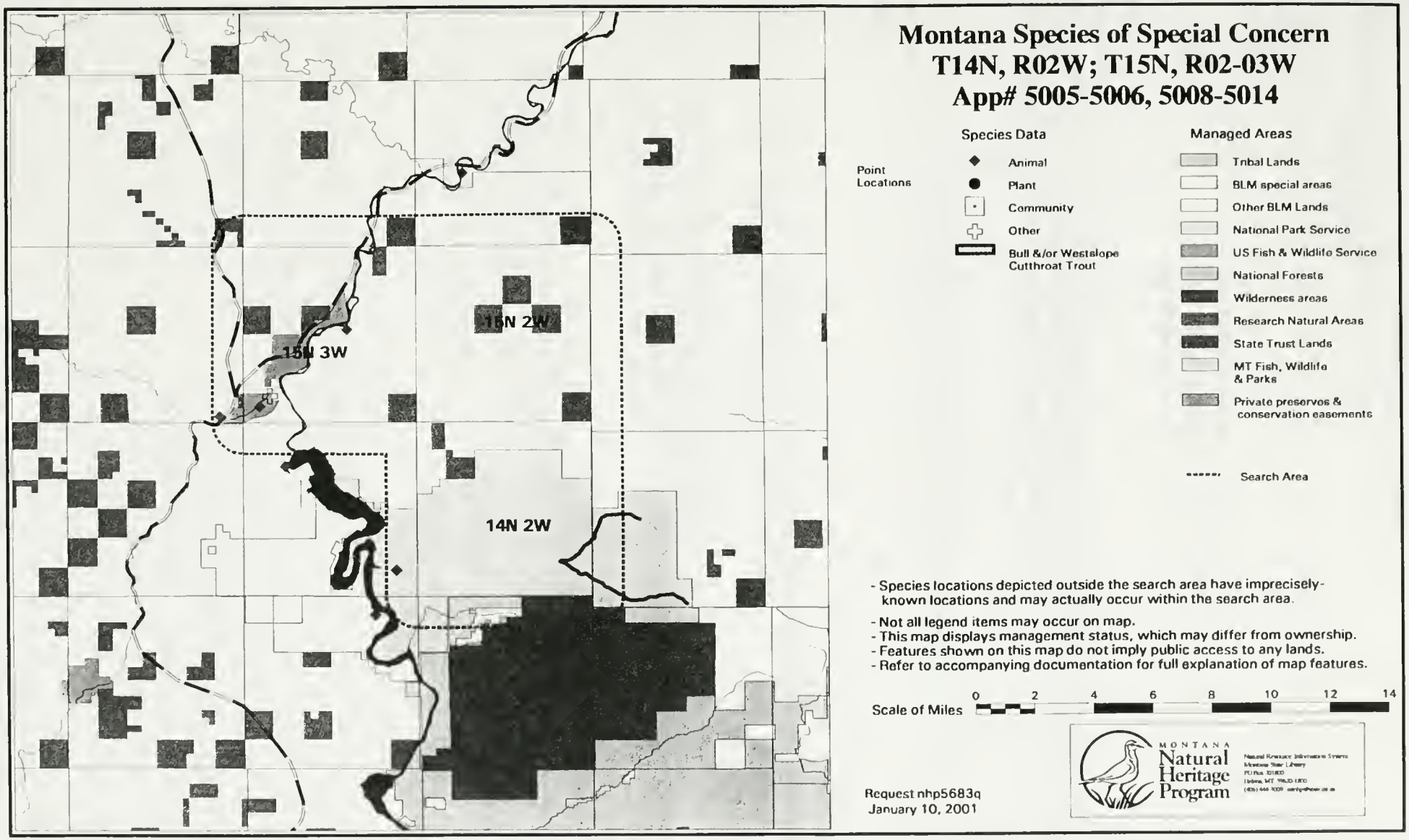
Precision: M

Elevation (ft): 3600

Location:
ON SOUTHEAST BANK OF MISSOURI RIVER ABOUT 2 RIVER MILES BELOW DEARBORN RIVER.

Township\Range:	Section:	TRS comments:
016N002W	20	

Application # 5012 T13N R3W, Sec. 2 is ~2 1/2 to 3 1/2 miles From this site. Distance - no impact
Application # 5013 T15N, R3W, Sec. 12 is ~ 3 1/4 to ~4 1/4 miles From this site. Distance - no impact
Topography is less steep on these tracts too.
However, due to the location of the tracts east and northeast of Craig, MT in Central Lewis and Clark County, the sensitive areas stipulation will be applied to these tracts.



Montana Species of Special Concern
T14N, R02W; T15N, R02-03W
App# 5005-5006, 5008-5014

Species Data

Point Locations

- Animal
- Plant
- Community
- Other
- Bull &/or Westslope Cutthroat Trout

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

- Species locations depicted outside the search area have imprecisely-known locations and may actually occur within the search area.
- Not all legend items may occur on map.
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- Refer to accompanying documentation for full explanation of map features.

Scale of Miles: 0 2 4 6 8 10 12 14

Request nhp5683q
January 10, 2001

MONTANA Natural Heritage Program

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T14N, R05W, Lewis & Clark County
App# 5082-5088

Scientific Name: FELIS LYNX

Common Name: LYNX

Global Rank G5 **Forest Service status:**

State Rank: S2 **USFWS Endangered Species Act Status:** PT

BLM Status:

Occurrence Type:

Species occurrence data:

POTENTIAL HABITAT. THIS OCCURRENCE RECORD CONSISTS OF LARGE CONTIGUOUS AREAS THAT WERE GENERALIZED FROM SPECIFIC HABITATS IDENTIFIED BY THE WILDLIFE SPATIAL ANALYSIS LAB AT THE UNIVERSITY OF MONTANA AS BEING POTENTIAL LYNX HABITAT.

Last observation: 1999 **Size (acres):**

General site description:

DENSE, MATURE OR OLD-GROWTH LODGEPOLE PINE, DOUGLAS-FIR, ENGELMANN SPRUCE AND SUBALPINE FIR FORESTS. WELL-DEVELOPED UNDERSTORY IMPORTANT.

Land owner/manager

Comments:

ALL HABITAT POLYGONS IN THE STATE ARE INCLUDED IN THIS OCCURRENCE RECORD. SOURCE DATA INCLUDES CAVEAT THAT SUITABLE HABITAT MAY BE OVERESTIMATED.

Information source

HART, M. M., W. A. WILLIAMS, P. C. THORNTON, K. P. MCLAUGHLIN, C. M. TOBALSKE, B. A. MAXELL, D. P. HENDRICKS, C. R. PETERSON, AND R. L. REDMOND. 1998. MONTANA ATLAS OF TERRESTRIAL VERTEBRATES. UNPUBLISHED REPORT. MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT, THE UNIVERSITY OF MONTANA, MISSOULA. VII + 1302 PP.

Survey site name: STATEWIDE

County: BEAVERHEAD; CARBON; CASCADE; DEER LODGE; FLATHEAD; GALLATIN; GLACIER; GRANITE; JEFFERSON; JUDITH BASIN; LAKE; LEWIS AND CLARK; LINCOLN; MADISON; MEAGHER; MINERAL; MISSOULA; PARK; PONDERA; POWELL; RAVALLI; SANDERS; SILVER BOW; STILLWATER; SWEET GRASS; TETO

USGS quadrangle: (EXTENDS OVER MULTIPLE QUADS)

Precision: G

Elevation (ft):

Location:

INCLUDES MUCH OF WESTERN & SOUTH CENTRAL MONTANA

Township\Range: **Section:** **TRS comments:**

Application numbers 5082, 5083, 5084, 5085, 5086, 5087, & 5088 are in Lewis & Clark County in T14N, R5W. These tracts are within the lynx area. Due to their location in the lynx and the grizzly bear area southwest of Wolf Creek, MT in central Lewis and Clark County, the sensitive areas stipulation will be utilized on these tracts.

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T14N, R05W, Lewis & Clark County
App# 5082-5088

Scientific Name: URSUS ARCTOS HORRIBILIS

Common Name: GRIZZLY BEAR

Global Rank G4T3 **Forest Service status:** THREATENED

State Rank: S1S2 **USFWS Endangered Species Act Status:** LT

BLM Status: SPECIAL STATUS

Occurrence Type: OCCUPIED HABITAT

Species occurrence data:

OCCUPIED HABITAT. THIS OCCURRENCE IS APPARENTLY SEPARATED FROM THAT IN THE MISSION MOUNTAINS TO THE EAST AND BECOMING ISOLATED FROM POPULATIONS IN CANADA TO THE NORTH. THE POPULATION IS ESTIMATED AT 549-813 BEARS WITH A MINIMUM OF 306 BEARS (INCLUDING THE MISSION MOUNTAINS PORTION), ACCORDING TO THE U.S. FISH AND WILDLIFE SERVICE. FROM 1987-1992, THE AVERAGE KNOWN HUMAN-CAUSED MORTALITY WAS 11.3 BEARS/YEAR, ACCORDING TO THE U.S. FISH AND WILDLIFE SERVICE. THE BOUNDARIES FOR THIS OCCURRENCE ARE SLIGHTLY MODIFIED FROM THE RECOVERY ZONE BOUNDARY TO INCLUDE AREAS WHERE BEARS ARE REPEATEDLY OBSERVED.

Last observation: **Size (acres):**

General site description:

GRIZZLIES USE A WIDE RANGE OF HABITATS, FROM LOW-ELEVATION RIPARIAN AREAS TO ALPINE AND TALUS SLOPES.

Land owner/manager

SCAPEGOAT WILDERNESS; BOB MARSHALL WILDERNESS; GREAT BEAR WILDERNESS; GLACIER NATIONAL PARK; FLATHEAD NATIONAL FOREST; LEWIS & CLARK NATIONAL FOREST; HELENA NATIONAL FOREST; LOLO NATIONAL FOREST; CORPORATE TIMBERLANDS; PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); STATE LAND - UNDESIGNATED; THE NATURE CONSERVANCY EASEMENT 34; THE NATURE CONSERVANCY EASEMENT 38; MONTANA LAND RELIANCE EASEMENT 4; UNIVERSITY OF MONTANA LAND - BANDY RANCH; THE NATURE CONSERVANCY EASEMENT 18; SWAN RIVER OXBOW PRESERVE

Comments:

"OCCUPIED HABITAT" IS BASED ON THE RECOVERY ZONE BOUNDARY AND THE PROFESSIONAL JUDGEMENT OF THE MTNHP ZOOLOGIST. (THE RECOVERY ZONE BOUNDARY AND BEAR MANAGEMENT UNITS ARE AVAILABLE FROM MTNHP.)

Information source

SERVHEEN, C. 1993. GRIZZLY BEAR RECOVERY PLAN. UNPUBLISHED REPORT TO THE U.S. FWS. UNIVERSITY OF MONTANA, MISSOULA. 181 PP.

Survey site name: NORTHERN CONTINENTAL DIVIDE

County: FLATHEAD; GLACIER; PONDERA; TETON; LEWIS AND CLARK; POWELL; MISSOULA; LAKE; LINCOLN

USGS quadrangle: (EXTENDS OVER NUMEROUS QUADS)

Precision: G

Elevation (ft): 3200

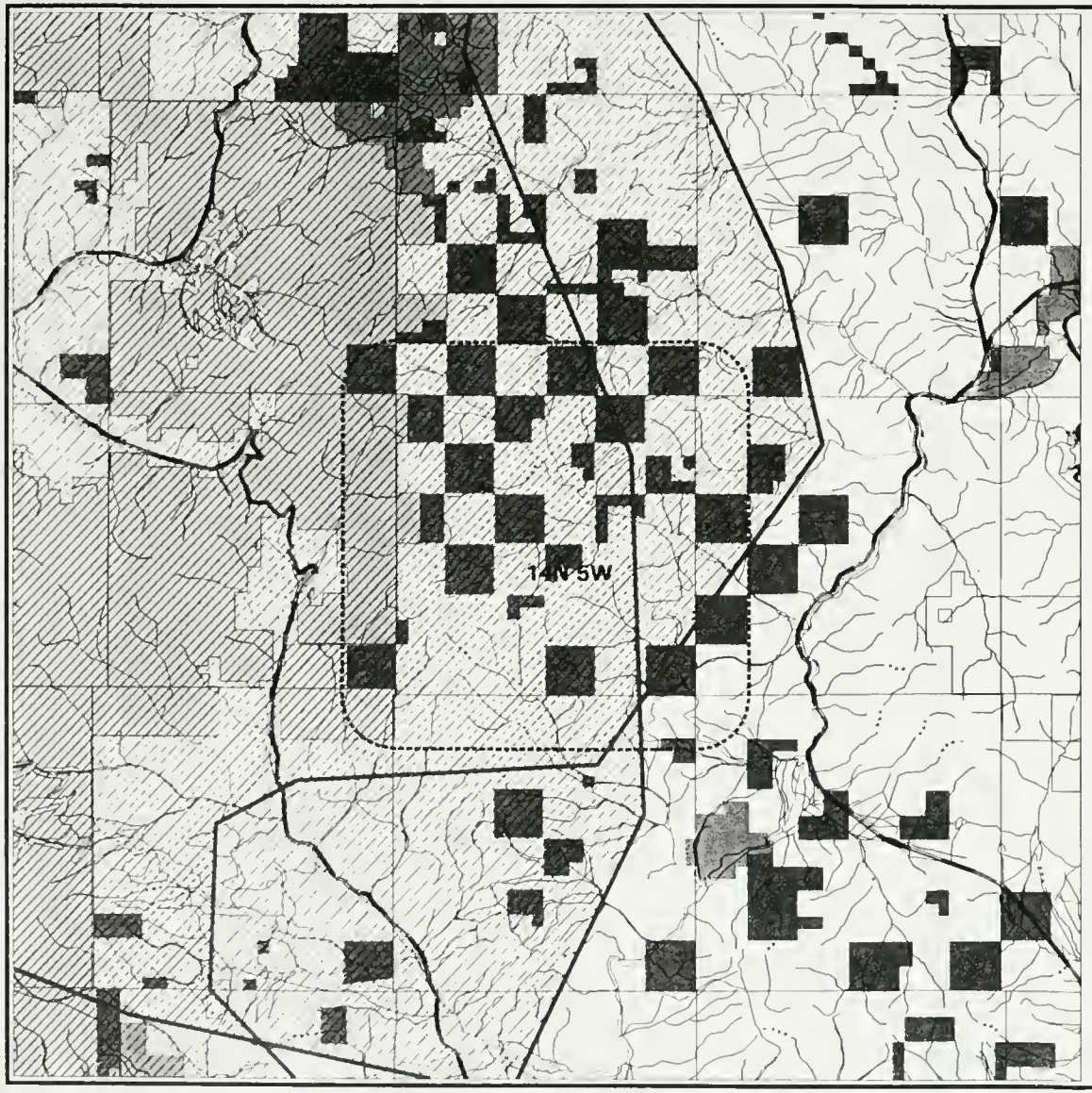
Location:

THIS RECORD ENCOMPASSES AN AREA FROM CANADA SOUTH TO STATE HIGHWAY 200, AND FROM EAST FRONT TO SWAN AND STILLWATER RIVERS.

Township\Range: **Section:** **TRS comments:**

Application numbers 5082 thru 5088 are in Lewis and Clark County in T14N R5W. These tracts are within this grizzly bear area noted by MHP. Due to their location in the grizzly bear and the lynx area southwest of Wolf Creek, MT in Central Lewis and Clark County, the sensitive areas stipulation will be utilized on these tracts.

p. 3 not sent to



Montana Species of Special Concern
T14N, R05W, Lewis & Clark County
App# 5082-5088

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Mammals

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles: 0 2 4 6 8 10

Request nhp5683r
January 10, 2001

MONTANA Natural Heritage Program

Natural Resource Information System
Montana State Library
P.O. Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 **Montana Natural Heritage Program**

Species of Special Concern: T17N, R05W, Section 36, Lewis & Clark County
App# 5035

Scientific Name: HALIAEETUS LEUCOCEPHALUS

Common Name: BALD EAGLE

Global Rank G4 **Forest Service status:** THREATENED

State Rank: S3B,S3N **USFWS Endangered Species Act Status:** LT

BLM Status: SPECIAL STATUS

Occurrence Type: NEST SITE & TERRITORY

Species occurrence data:

STATUS: CURRENT. THE MONTANA BALD EAGLE WORKING GROUP (BEWG) ANNUALLY SURVEYS AND COLLECTS DATA ON NEST SITES. CONTACT BEWG COORDINATOR DENNIS FLATH OF MONTANA FISH, WILDLIFE & PARKS (406-994-6354) FOR MORE INFORMATION ABOUT THIS OCCURRENCE.

Last observation: 1999 **Size (acres):**

General site description:

NONE

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source

FLATH, D. 2000. [MEMO LISTING LOCATION OF BALD EAGLE NESTS AS OF AUGUST, 1999.] UNPUBLISHED REPORT. 11PP.

Survey site name: COMB ROCK

County: LEWIS AND CLARK

USGS quadrangle: COMB ROCK

Precision: M

Elevation (ft): 3900

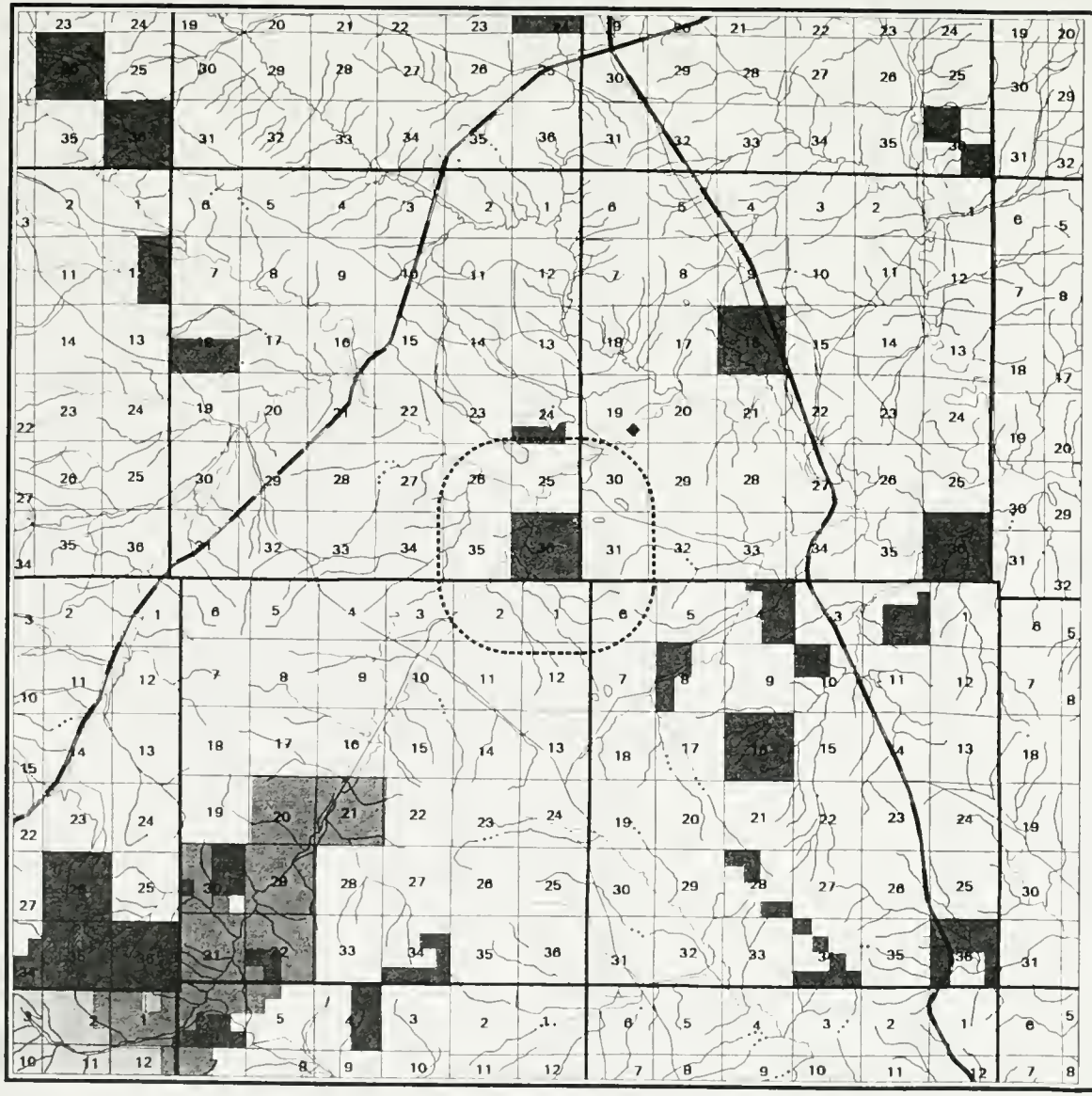
Location:

DEARBORN RIVER CA. 4 AIR MILES EAST OF US HWY 200 CROSSING.

Township\Range:	Section:	TRS comments:
017N004W	19	

Application # 5035 T17N, R5W Sec. 36 is ~ 1 to 2 miles away From this site. It does not have a riparian area with trees along the South Fork of the Dearborn River. However, a tree covered ridge is present on the tract. The tract is ~ 1/4 to ~1 1/4 miles away From the Dearborn River at its closest point near the confluence of the north and south forks.

This tract is outside the grizzly bear area by ~ 2 1/2 miles and is on the east side of Hwy 200 by about this same distance, However, due to its proximity to the grizzly bear area and the Dearborn River, and the bald eagle nesting site, the sensitive areas stipulation will be utilized on this tract.



Montana Species of Special Concern
T17NR05W, Sec 36, Lewis & Clark Co.
App# 5035

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles 0 1 2 3 4 5 6 7

Request nhp5683s
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T36N, R05-06E, Liberty County
App# 5093-5099, 5131-5134

Scientific Name: RANUNCULUS PEDATIFIDUS

Common Name: NORTHERN BUTTERCUP

Global Rank G5

State Rank: S1

Forest Service status:

USFWS Endangered Species Act Status:

BLM Status: WATCH

Occurrence Type:

Species occurrence data:

OCCASIONAL. IN FRUIT 1993-07-08.

Last observation: 1993-07-08

Size (acres):

General site description:

SPONGY WET MEADOW ALONG SEGMENT OF TRIBUTARY TO TOOTSIE CREEK. ASSOCIATED SPECIES: CAREX NEBRASCENSIS, JUNCUS CASTANEUS, J. TENUIS, HIERACIUM GRACILE, VERONICA AMERICANA, ANEMONE MULTIFIDA, RANUNCULUS ABORTIVUS.

Land owner/manager

BLM: GREAT FALLS FIELD OFFICE; SWEETGRASS HILLS AREA OF CRITICAL ENVIRONMENTAL CONCERN

Comments:

Information source

HEIDEL, BONNIE. [BOTANIST] MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 201800, HELENA, MT 59620-1800. WORK: 406/444-3009.

Survey site name: SWEETGRASS HILLS/EAST BUTTE

County: LIBERTY

USGS quadrangle: MOUNT LEBANON

Precision: S

Elevation (ft): 4820

Location:

SWEETGRASS HILLS, EAST BUTTE AREA, SOUTH OF TOOTSIE CREEK ON HEADWATERS TRIBUTARY; ACCESSIBLE VIA IRON CREEK ROAD.

Township\Range:	Section:	TRS comments:
036N005E	20	SE4

Application Numbers 5093 T36N, R5E Sec. 26, NW SE
5131 T36N R5E, Sec. 34, SW NE, NW4, S2
5094 T36N R5E, Sec 35, E2E2, S2NW, SW4
5095 T36N R5E Sec 36, All
and 5136 T37N R4E Sec 36, All
are about 1¼ to 4 miles from this site with 5131 (Sec. 34 being the closest.)
These tracts do not have trees, They have less steep topography and lower elevation. They appear to be dryer.
Distance & Dissimilar habitat – No impact

Montana Species of Special Concern
T36N, R05-06E, Liberty Co.
App# 5093-5099, 5131-5134

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles 0 2 4 6 8 10 12

Request nhp5683u
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009 nrisp@state.mt.us

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T37N, R04E, Liberty County
App# 5135-5136

Scientific Name: ELODEA LONGIVAGINATA

Common Name: LONG SHEATH WATERWEED

Global Rank G4G5 **Forest Service status:**

State Rank: S2 **USFWS Endangered Species Act Status:**

BLM Status: WATCH

Occurrence Type:

Species occurrence data:

AQUATIC SPECIES, NUMBER OF INDIVIDUALS UNKNOWN; SITE LOCATED IN OIL AND GAS FIELD.

Last observation: 1987-07-17 **Size (acres):** 1

General site description:

SMALL POND IN FESCUE GRASSLAND; WITH MYRIOPHYLLUM SPICATUM, POTAMOGETON RICHARDSONII, P. PUSILLUS, RANUNCULUS AQUATILIS; MUCH ALGAL GROWTH ON SURFACE.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

NONE.

Information source

LESICA, PETER. DIVISION OF BIOLOGICAL SCIENCES, UNIVERSITY OF MONTANA, MISSOULA, MT 59812.

Survey site name: IKES BUTTE POND

County: LIBERTY

USGS quadrangle: HAWLEY HILL

Precision: S

Elevation (ft): 3900

Location:

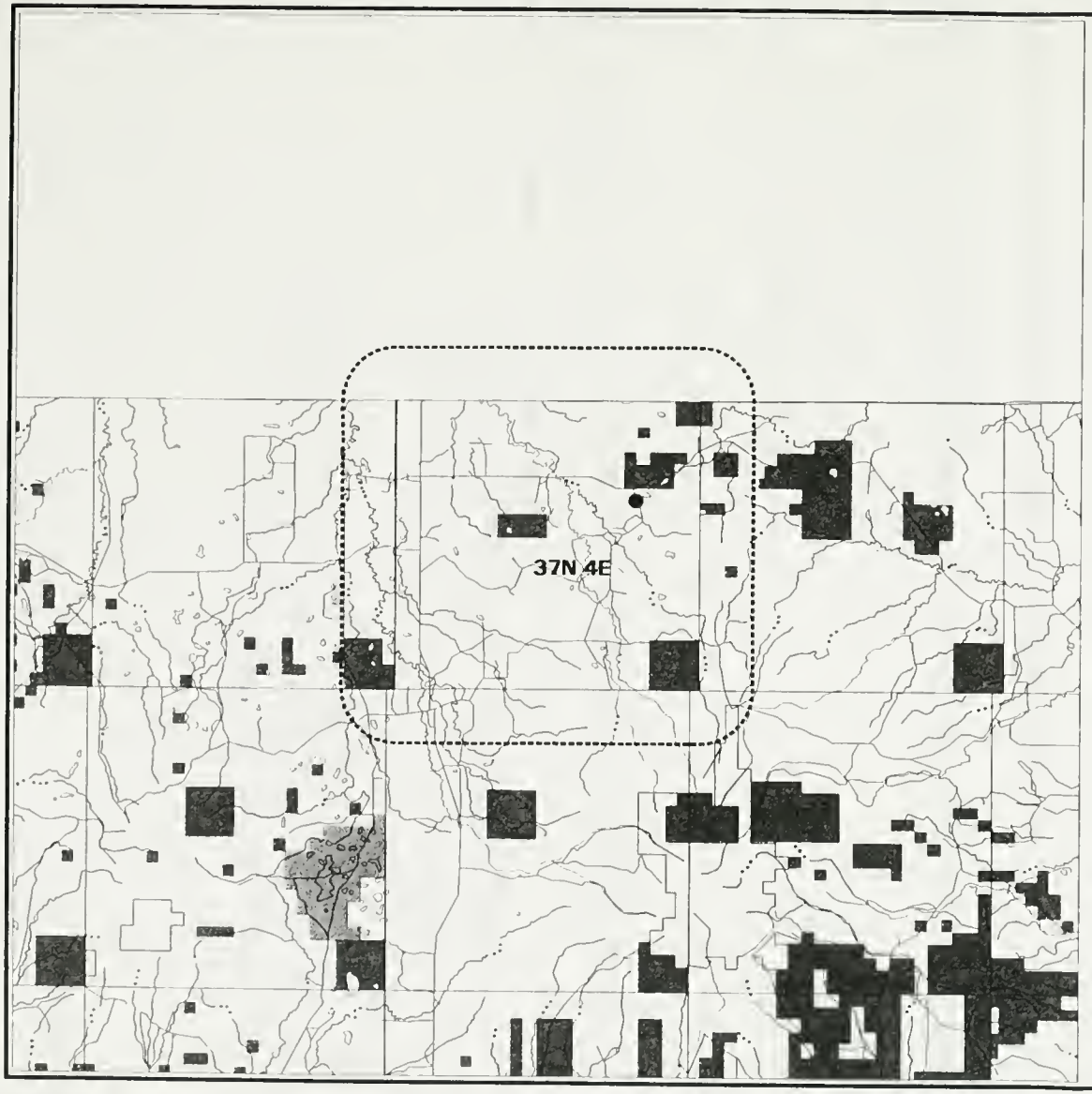
4.5 MILES NORTH OF WHITLASH, 4.2 MILES EAST, THEN CA. 0.25 MILE SOUTH; WEST SIDE OF ROAD, SOUTH OF IKES BUTTE, WEST OF BINGHAM RIDGE.

Township\Range:	Section:	TRS comments:
037N004E	14	NE4

Application # 5135 T37N, R4E Sec. 1 is ~ 1½ to 2 miles away From this site. This tract does not have prairie potholes or ponds on it. – No impact –

Application # 5136 T37N, R4E Sec. 36 is ~ 2 to 3 miles away From this site. This tract does not have prairie potholes or ponds on it. – No impact –

Montana Species of Special Concern
T37N, R04E, Liberty Co.
App# 5135-5136



Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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- Not all legend items may occur on map.
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Scale of Miles 0 2 4 6 8 10

Request nhp5683v
January 10, 2001

MONTANA Natural Heritage Program

11-Jan-01

Montana Natural Heritage Program

Species of Special Concern: T33N, R34E, Sections 15 & 16, Phillips County
App# 5100-5101

Scientific Name: VULPES VELOX

Common Name: SWIFT FOX

Global Rank G3

State Rank: S1

Forest Service status: SENSITIVE

USFWS Endangered Species Act Status: C

BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

LIMITED DATA AVAILABLE; BUT PROBABLY AT LEAST 4 BREEDING PAIRS ARE PRESENT. THE BOUNDARIES FOR THIS OCCURRENCE ENCOMPASS ALL REPORTED OBSERVATIONS LOCATED WITHIN 20 KM OF ONE ANOTHER. SPECIFIC OBSERVATION DATA AVAILABLE FROM MTNHP.

Last observation: 1996

Size (acres):

General site description:

ROLLING, GLACIATED MIXED-GRASS PRAIRIE WITH LIMITED SHRUB.

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); BLM: LEWISTOWN FIELD OFFICE; FORT BELKNAP INDIAN RESERVATION

Comments:

41 OBSERVATIONS IN THE 1980S AND 1990S, INCLUDING 5 OF PUPS OR JUVENILES.

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: BORDER PRAIRIE

County: BLAINE; VALLEY; PHILLIPS; HILL

USGS quadrangle: (EXTENDS OVER NUMEROUS QUADS)

Precision: G

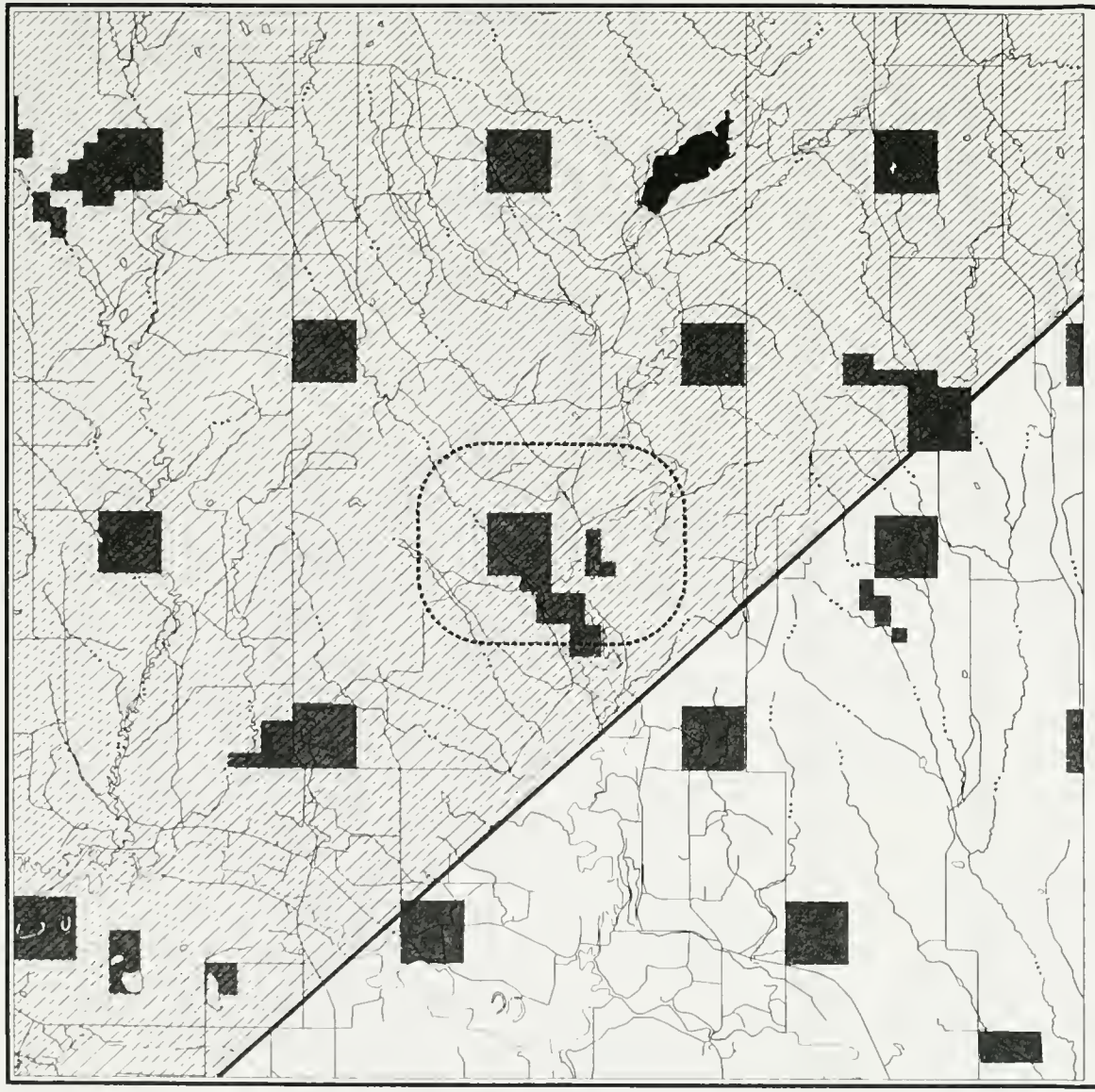
Elevation (ft):

Location:

A VERY LARGE AREA MOSTLY NORTH OF THE MILK RIVER FROM CHINOOK TO HINSDALE AND EXTENDING TO CANADA.

Township\Range:	Section:	TRS comments:
037N018E	12	CENTROID--OCCURRENCE EXTENDS OVER MANY TOWNSHIPS

Application #'s 5100 T33N R34E Sec. 15 (part)
and 5101 T33N R34E Sec 16 (all)
are within the swift Fox area denoted on the accompanying map. The wildlife survey stipulation will be added to the leases of these tracts.



Montana Species of Special Concern
T33N R34E Secs 15-16, Phillips Co.
App# 5100-5101

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Mammals

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles: 0 2 4 6 8

Request nhp5683w
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 **Montana Natural Heritage Program**

Species of Special Concern: T29N, R05W, Sections 33-35, Pondera County
App# 5089-5091

Scientific Name: BUTEO REGALIS

Common Name: FERRUGINOUS HAWK

Global Rank G4 **Forest Service status:**

State Rank: S3B,SZN **USFWS Endangered Species Act Status:**

BLM Status: SPECIAL STATUS

Occurrence Type: OCCUPIED BREEDING HABITAT

Species occurrence data:

HIGH CONCENTRATION OF HAWKS IN THIS AREA. CA. 6 BREEDING PAIRS OBSERVED IN 1997 WITH CA. 10 ALTERNATE NESTS. (SPECIFIC OBSERVATION DATA AVAILABLE FROM MTNHP.)

Last observation: 1997-05 **Size (acres):**

General site description:

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); STATE LAND - UNDESIGNATED

Comments:

FULL EXTENT OF OCCUPIED BREEDING HABITAT IS UNKNOWN.

Information source

DUBOIS, KRISTI. REGION 4, MONTANA DEPARTMENT OF FISH, WILDLIFE & PARKS. 4600 GIANT SPRINGS ROAD, GREAT FALLS, MT 59406. 406-454-5840.

Survey site name: SOUTH OF VALIER

County: PONDERA

USGS quadrangle: LONE MAN COULEE EAST; VALIER EAST; LONE MAN COULEE WEST; SAM GEORGE HILL

Precision: G

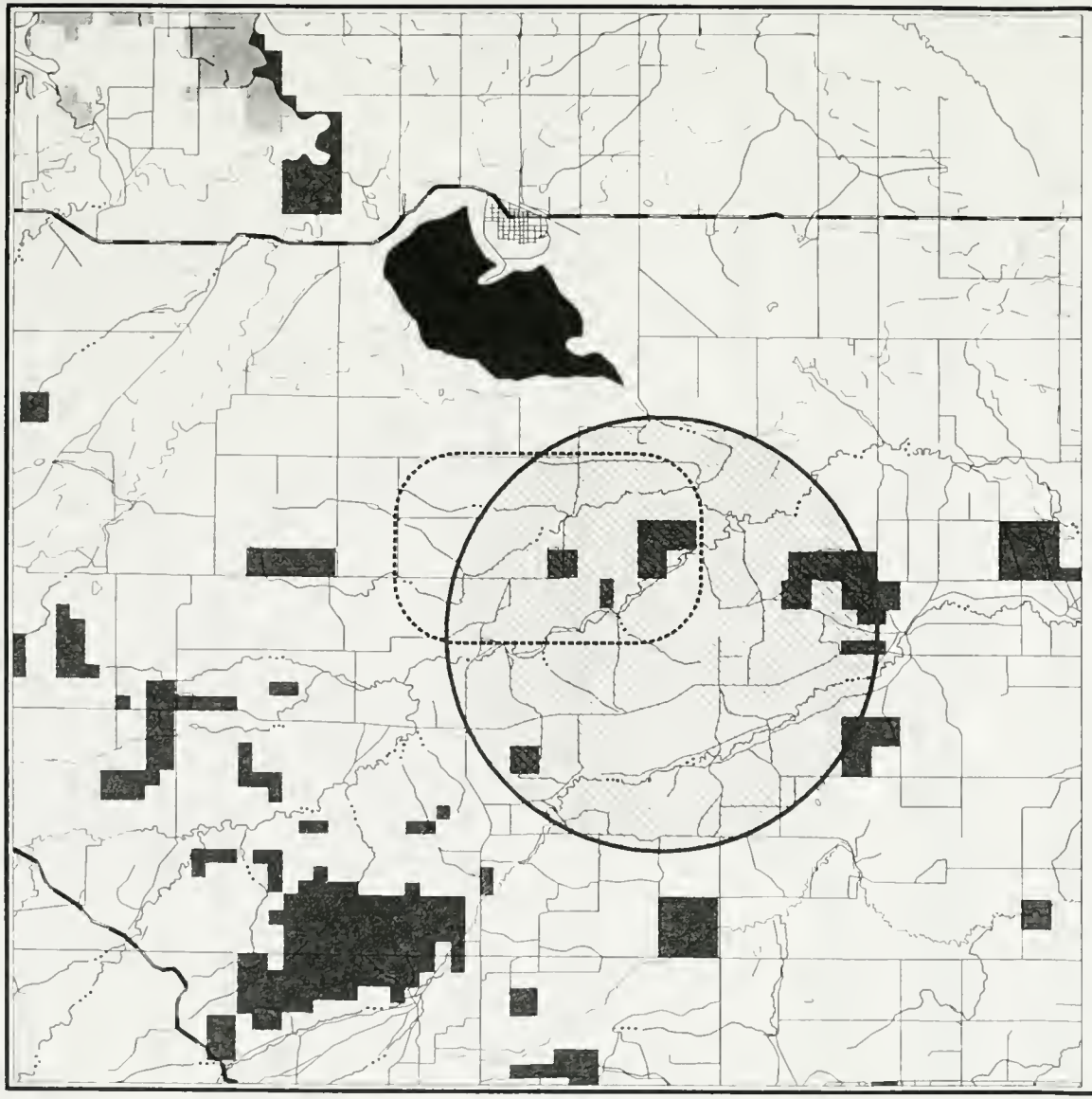
Elevation (ft):

Location:

SOUTH OF VALIER.

Township\Range:	Section:	TRS comments:
028N005W		
029N005W	00	
029N004W	00	
028N004W	00	

Application numbers 5089 T 29N R 5W Sec. 33 (part)
5090 T 29N R 5W Sec. 34 (part)
5091 T 29N R 5W Sec. 35 (part)
are within the Ferruginous hawk area noted on this data sheet. The wildlife survey stipulation will be added to the leases of these tracts.



Montana Species of Special Concern
T29N, R05W, Secs 33-35, Pondera Co.
App# 5089-5091

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Birds

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles: 0 2 4 6 8

Request nhp5683x
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T09S, R48E, Sections 4, 8 & 9, Powder River County
App# 5015-5017

Scientific Name: HYBOPSIS GELIDA

Common Name: STURGEON CHUB

Global Rank G2

State Rank: S2

Forest Service status:

USFWS Endangered Species Act Status: C

BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

A WIDESPREAD POPULATION, FAIRLY ABUNDANT.

Last observation: 1996

Size (acres): 0

General site description:

TURBID WATERS WITH MODERATE CURRENTS & DEPTHS.

Land owner/manager

FORT PECK INDIAN RESERVATION; BLM: MILES CITY FIELD OFFICE; PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); STATE LAND - UNDESIGNATED

Comments:

BOUNDARIES OF OCCUPIED HABITAT NOT WELL DEFINED. HISTORICALLY REPORTED FROM LOWER MILK, TETON & TONGUE RIVERS.

Information source

TEWS, A., B. GARDNER AND B. GARDNER. 1999. STATUS OF NATIVE FISHES OF 'SPECIAL CONCERN' IN MONTANA. UNPUBLISHED REPORT OF REPORTS ON 16 SPECIES. INCOMPLETE - IN PROGRESS.

Survey site name: LOWER MISSOURI & YELLOWSTONE RIVER DRAINAGES.

County: DAWSON; CUSTER; VALLEY; ROOSEVELT; RICHLAND; MCCONE; WIBAUX; PRAIRIE; POWDER RIVER

USGS quadrangle: (EXTENDS OVER NUMEROUS QUADS)

Precision: G

Elevation (ft): 1860

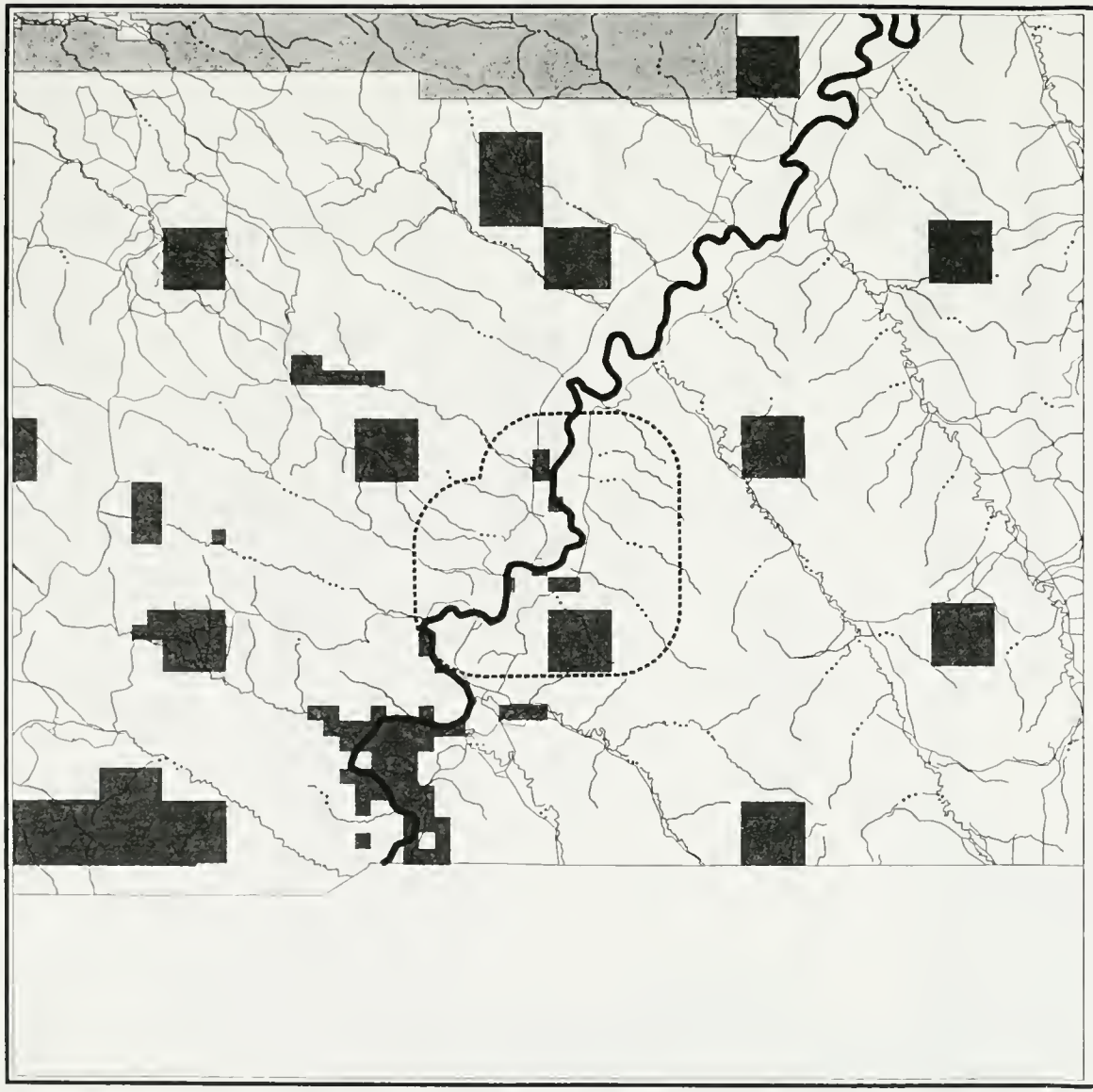
Location:

MISSOURI RIVER BELOW FORT PECK DREDGE CUTS; YELLOWSTONE RIVER BELOW MILES CITY; POWDER RIVER TO WYOMING BORDER.

Township\Range:	Section:	TRS comments:
018N056E	36	CENTROID--OCCURRENCE EXTENDS OVER NUMEROUS TOWNSHIPS

Application # 5015 T9S, R48E Sec. 4,
5016 T9S, R48E Sec. 8, and
5017 T9S, R48E Sec. 9 all have the Powder River adjoining the upland. Application numbers ~~# 5015 and~~ 5016 will have the river buffer stipulation added.

Application # 5015 and 5017 will have the sensitive areas stipulation applied to their leases, due to their proximity to the Buffalo Creek Wilderness Study area which the BLM did not recommend for wilderness designation.



Montana Species of Special Concern
T09S, R48E, Secs. 4, 8 & 9
App# 5015-5017

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Fluvial Occurrences (Fish, Birds, &/or Herps)

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

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Scale of Miles: 0 2 4 6 8

Request nhp5683y
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T31N, R03E, Sections 8 & 9, Toole County
App# 5102-5103

Scientific Name: BUTEO REGALIS

Common Name: FERRUGINOUS HAWK

Global Rank G4 **Forest Service status:**

State Rank: S3B,SZN **USFWS Endangered Species Act Status:**

BLM Status: SPECIAL STATUS

Occurrence Type: OCCUPIED BREEDING HABITAT

Species occurrence data:

BREEDING POPULATION OF AT LEAST 1 PAIR. THE BOUNDARIES FOR THIS OCCURRENCE WERE DRAWN TO ENCOMPASS SEVERAL NESTING OBSERVATIONS IN THE AREA. (SPECIFIC OBSERVATION DATA AVAILABLE FROM MTNHP.)

Last observation: 1994-06 **Size (acres):**

General site description:

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); STATE LAND - UNDESIGNATED

Comments:

FULL EXTENT OF OCCUPIED BREEDING HABITAT IS UNKNOWN.

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: GALATA AREA

County: TOOLE

USGS quadrangle: DEVON; MCCARTERS LAKE SE; SOUTH DEVON SCHOOL; GALATA

Precision: G

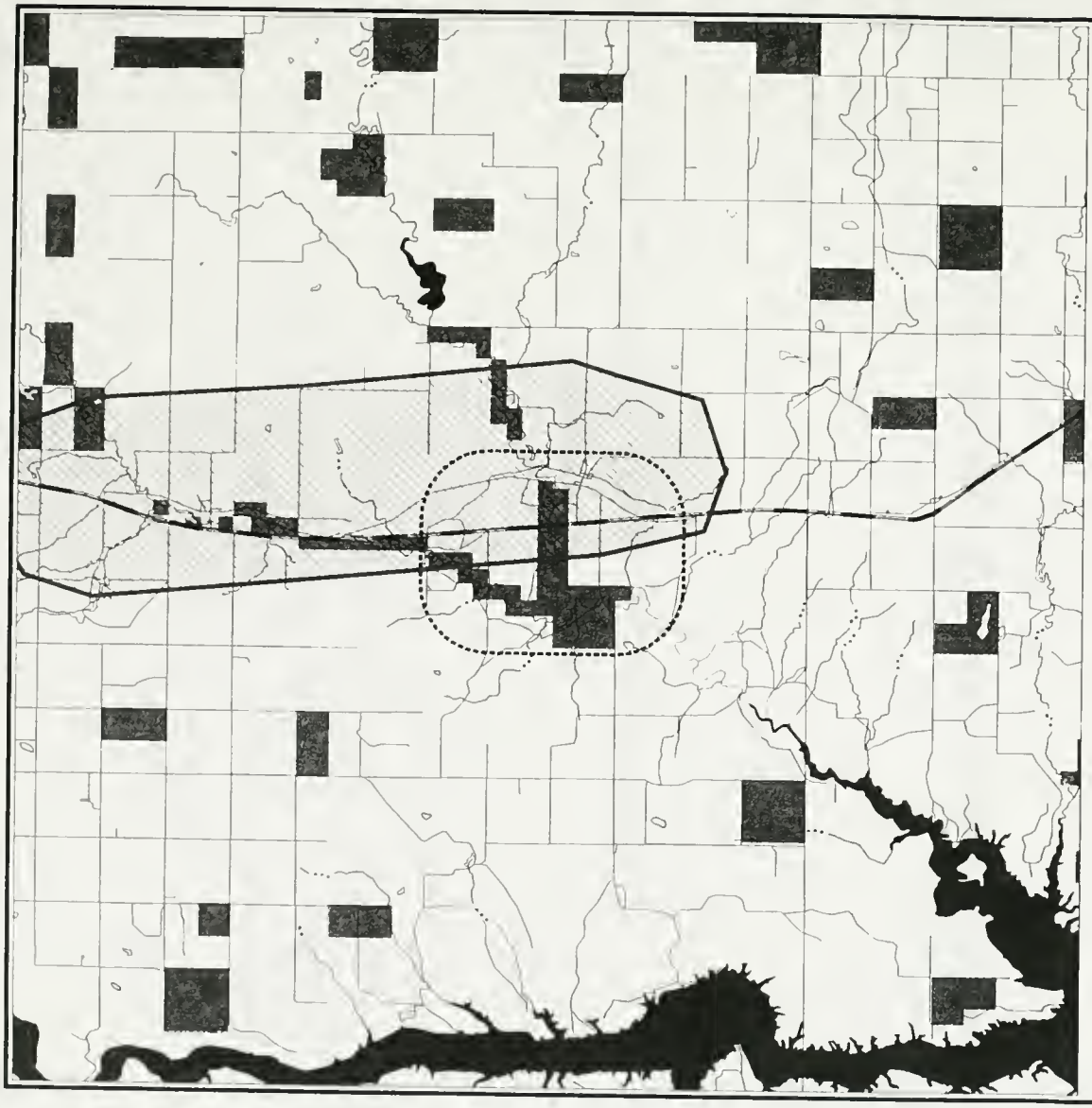
Elevation (ft):

Location:

NEAR TOWN OF GALATA.

Township\Range:	Section:	TRS comments:
031N002E	2	SPANS MULTIPLE TOWNSHIPS

Application #'s 5102 T31N, R3E Sec. 8 E2 E2
5103 T31N, R3E, Sec. 9 W2 W2
are within the Ferruginous hawk area.
The wildlife survey stipulation will be added to the leases of these tracts.



Montana Species of Special Concern
T31N, R03E, Secs. 8 & 9, Toole Co.
App# 5102-5103

Species Data

Point Locations
- Animal
- Plant
- Community
- Other

Populations covering large areas
- Birds

Managed Areas
- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
- State Trust Lands
- MT Fish, Wildlife & Parks
- Private preserves & conservation easements

Search Area

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Scale of Miles 0 2 4 6 8

Request nhp5683aa
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009

11-Jan-01 Montana Natural Heritage Program

Species of Special Concern: T37N, R01E, Section 16, Toole County
App# 5118

Scientific Name: SOREX NANUS
Common Name: DWARF SHREW

Global Rank G4
State Rank: S3

Forest Service status:
USFWS Endangered Species Act Status:
BLM Status:

Occurrence Type:

Species occurrence data:
2 SPECIMENS COLLECTED IN PITFALL TRAPS.

Last observation: 1975

Size (acres):

General site description:
DRY RUBBLE SLOPES OF IRREGULARLY-SHAPED ROCKS CA. 2-10 CM. IN DIAMETER.

Land owner/manager
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE); SWEETGRASS HILLS AREA OF CRITICAL ENVIRONMENTAL CONCERN

Comments:

Information source
THOMPSON, L. S. 1977. DWARF SHREW (SOREX NANUS) IN NORTH- CENTRAL MONTANA. J. MAMMAL. 58(2):248-250.

Survey site name: WEST BUTTE
County: TOOLE
USGS quadrangle: WEST BUTTE
Precision: M
Elevation (ft): 4600

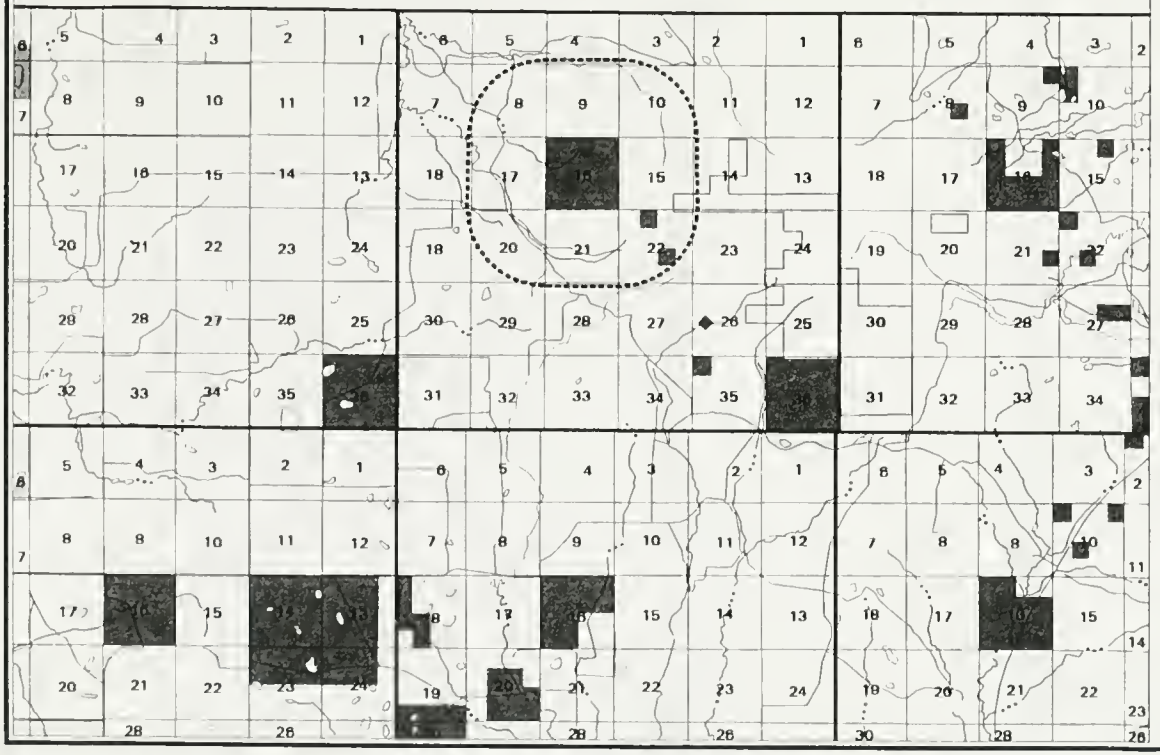
Location:
PRATT CANYON, ON THE WEST SLOPES OF WEST BUTTE OF SWEETGRASS HILLS.

Township\Range:	Section:	TRS comments:
037N001E	26	W2

Application # 5118 T37N R1E Sec. 16
is ~ 1 1/2 to 2 1/2 miles away From this site
Topography on this tract is less steep
Aspect is more westerly. There are Fewer trees.

Distance & Dissimilar habitat.
— No impact —

Montana Species of Special Concern
T37N, R01E, Sec. 16, Toole Co.
App# 5118



Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
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Scale of Miles: 0 1 2 3 4 5 6 7

MONTANA Natural Heritage Program

Request nhp5683ac
January 10, 2001

11-Jan-01 **Montana Natural Heritage Program**

Species of Special Concern: T12N, R58-61E; T13-16N, R59-60E, Wibaux County
App# 5195-5236

Scientific Name: ZAPUS HUDSONIUS

Common Name: MEADOW JUMPING MOUSE

Global Rank G5 **Forest Service status:**

State Rank: S2S3 **USFWS Endangered Species Act Status:**

BLM Status: SPECIAL STATUS

Occurrence Type:

Species occurrence data:

5 ADDITIONAL SPECIMENS COLLECTED IN "WIBAUX CO." AUG 21-31, 1978. 1 MALE SPECIMEN COLLECTED.

Last observation: 1978-08-21 **Size (acres):** 0

General site description:

Land owner/manager

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

Information source

ZOOLOGIST, MONTANA NATURAL HERITAGE PROGRAM, 1515 EAST SIXTH AVENUE, P.O. BOX 210800, HELENA, MT 59620-1800. 406/444-3009.

Survey site name: WIBAUX-N

County: WIBAUX

USGS quadrangle: ODLAND DAM SW

Precision: M

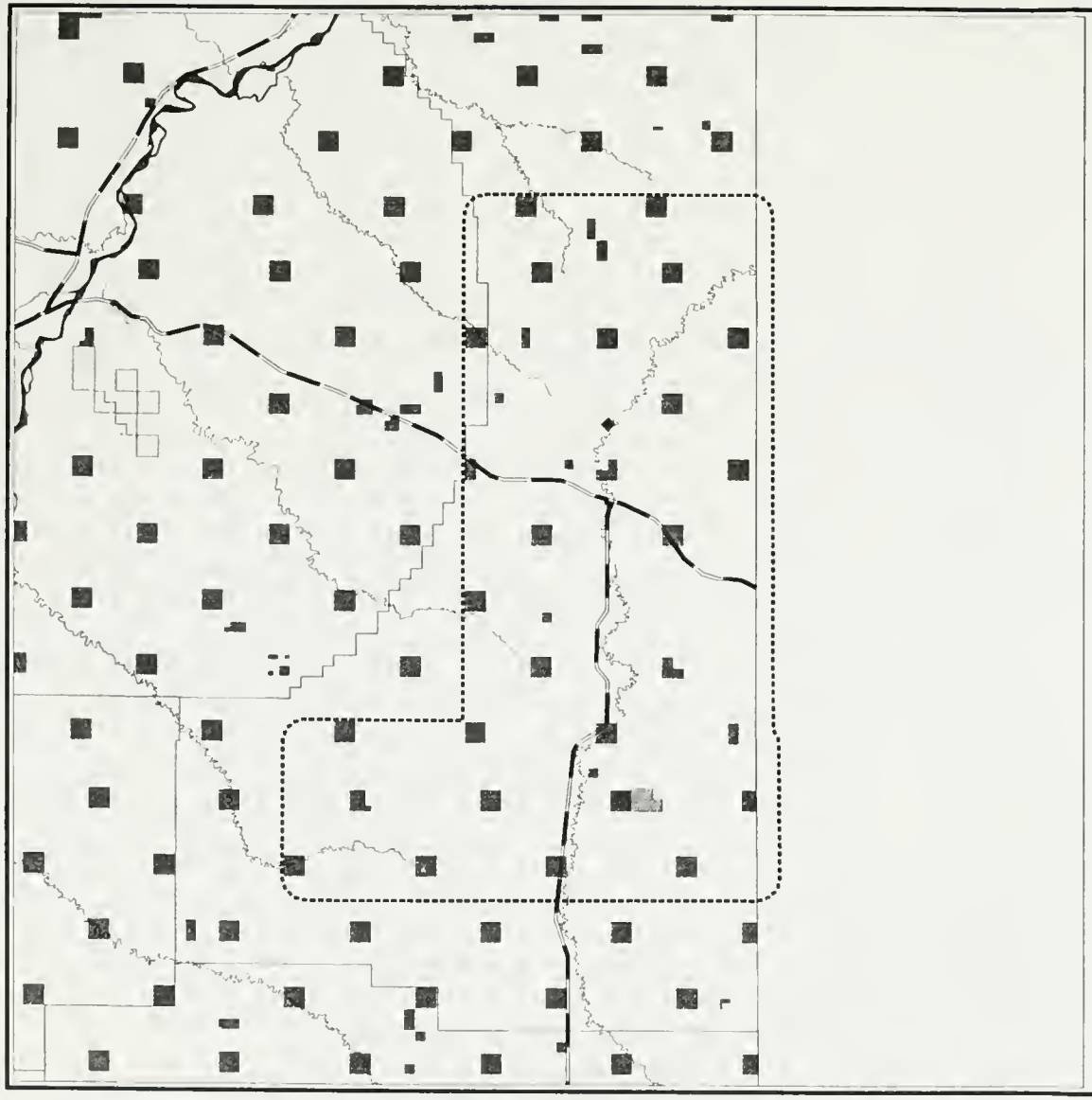
Elevation (ft): 2600

Location:

FROM GLENDIVE TAKE I-94 EAST TO THE WIBAUX EXIT, THENCE NORTH ON COUNTY ROAD ABOUT 4 MILES. EXACT LOCATION UNKNOWN.

Township\Range:	Section:	TRS comments:
015N059E	24	

Beaver Creek runs through this section. It is likely that the mouse would be Found in areas where Food and water are available. This section is ~ 1 to 2 miles From application number 5229, T 15N, R59E Sec. 36, Beaver Creek also runs through this section. The 100-Ft stream buFFer that will be placed on this tract's lease For water quality concerns should cover concerns For meadow jumping mice that could be present along the Beaver Creek corridor.



Montana Species of Special Concern
T12N, R58-61E; T13-16N, R59-60E
Wibaux Co. App# 5195-5236

Species Data

Point Locations

- Animal
- Plant
- Community
- Other

Managed Areas

- Tribal Lands
- BLM special areas
- Other BLM Lands
- National Park Service
- US Fish & Wildlife Service
- National Forests
- Wilderness areas
- Research Natural Areas
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- Private preserves & conservation easements

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Scale of Miles 0 5 10 15 20

Request nhp5683ae
January 10, 2001

MONTANA Natural Heritage Program
Natural Resource Information System
Montana State Library
PO Box 201800
Helena, MT 59620-1800
(406) 444-3009 nhp@state.mt.us

Kinley, Teresa

From: Moore, Sharon
Sent: Friday, January 19, 2001 10:30 AM
To: Kinley, Teresa
Subject: March Oil Sale

Hi Teresa,

Here's some more job security for you - it seems we just do one of these and then there's another one to do. I made comments on a few of the MDT tracts that are near a wildlife refuge. It appears MDT just has several small tracts by secondary roads, perhaps a result of road staightening projects. Please let me know if you have any questions.

Sharon

march oil sale doc

12-28-00

STATE OF MONTANA
OIL & GAS LEASE SALE - MARCH 6, 2001

HYDROLOGIST'S REPORT

APP#	TOPO MAP	TWP	RGE	SEC	DESCRIPTION	ACRES

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

CARTER (ELO, FWP-7)

5002 Dutchman's Hill 2.N 60.E 16 ALL 640.00

This lease is all grazing land with an intermittent stream and one reservoir. There was a prairie dog town on this lease when I looked at it years ago but Marc makes no mention of it in his last review. There are some scenic sandstone outcrops and some scattered pine trees. Good potential for finding archaeological sites. Some of the soils would have high potential for erosion. The stream, reservoir, etc. buffer stipulation, the avoid wooded areas stip. and the unstable soils stipulation will be added to this tract's lease. The cultural resources stip is added to all leases.

5001 Flasted Hill 2.N 60.E 36 ALL 640.00

This section is all grazing land with a reservoir and windmill for water sources. Terrain is mostly gently rolling with a few shallow outcrops. The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

CUSTER (ELO, FWP-7)

+5004 Brandenberg 1.N 45.E 16 ALL 640.00

This section is really rough with steep erosive hills with scoria and pine trees. There is one developed spring. Access may be limited in some areas. MDU has a gas pipeline that crosses this section. The steep topography/unstable soils stipulation, the avoid wooded areas stipulation, and the stream, spring, etc. buffer stipulation will be added to this tract's lease.

DAWSON (ELO, FWP-7)

5228 Allard 15.N 57.E 16 ALL 640.00
Cluster Buttes SW

This section has some really rough steep hills and deep draws with woody vegetation. Soils are erosive. Only water source is a stock tank near section line. Access could be limited on part of the section. The steep topography/unstable soils stipulation, the avoid wooded areas stipulation and the stream, wetland, etc. buffer stipulation will be added to this tract's lease.

POWDER RIVER (ELO, FWP-7)

5015 Moorhead 9.S 48.E 4 LOT 6 14.35

This small tract is a hardwood bottom with cottonwood trees along the Powder River. It is heavily infested with leafy spurge and we may have restrictions beyond the normal ones to prevent the spread of this noxious weed. Access may also be restricted because of all of the trees. Soils are very erosive and sandy. This tract is ~ 1/2 to 3/4 mile From the Buffalo Creek Wilderness study area which was not recommended for wilderness designation. Due to its location, the sensitive area stipulation will be utilized on this tracts lease.

5016 Moorhead 9.S 48.E 8 LOTS 4, 5, 6, 9, N2SE4, SW4SE4* 199.81
Bradshaw Creek
STATE DOES NOT OWN THE
SURFACE IN LOTS 4, 9, N2SE4,
SW4SE4.

This tract of land lies along the Powder River and has a severe leafy spurge problem that may require special restrictions to prevent its spread. There is also a homesite lease located on State land that would have to be avoided and may require special stipulations to prevent impacts to improvements and the well. There is a hardwood bottom with cottonwoods along the river edge. The special weed stipulation will be added to this tract's lease as will the avoid wooded areas stip, the 1/8th-mile river buffer stipulation and the stream, well, etc buffer stip. The homesite and damage

5017 Moorhead 9.S 48.E 9 LOTS 1, 3, 4, W2NE4, N2SW4 * 258.52 are covered in the body of the lease.
STATE DOES NOT OWN THE
SURFACE IN LOTS 1, 3, 4,
W2NE4.

This tract of land is all grazing land with some steep hills with pine trees. These soils would be erosive. Probably leafy spurge present on this tract. May require special restrictions. Part of the tract borders the Powder River.

This tract is adjacent to the Buffalo Creek Wilderness study area, which was not recommended for wilderness designation. Due to its location, the sensitive areas stipulation will be utilized on this tract's lease.

ROSEBUD (ELO, FWP-7)

5018 Regnal Coulee 12.N 33.E 36 LOTS 1 THRU 24, N2 1244.52
McGinnis Butte SW
Hecker Ranch
Yablonski Ranch
This section has rolling to rough hills with shallow erosive soils. No water sources are present. There are some old homestead buildings that may constitute a historic site.
The steep topography/unstable soils stipulation will be placed on this tract's lease. The Cultural resources stipulation is placed on all MT oil & gas leases. Setback distance for homes is covered in Section 28 of the lease.

WIBAUX (ELO, FWP-7)

5195 Hodges SW 12.N 58.E 16 W2E2, W2, SE4SE4 520.00
This tract of land is all grazing land. It is very unique and the only section I've been on in our 9 counties that has sandy dunes with buffalo berry, snowberry and cottonwood. Very fragile soils that lie in a transition zone between prairie and badlands. I would like to see a special stipulation on this one that would allow us to restrict access. I consider this a unique ecological site especially on the north part of the section. As a range specialist its always intriguing to find something out of the ordinary and since it is very fragile I'd prefer not to see it disturbed. I did find one flake on a sandy hill. The Avoid wooded areas stipulation, the Fragile/unstable soils and/or steep topo. stipulation and the Stream buffer stipulation will be added to this tract's lease.

5196 Hodges SE 12.N 58.E 36 ALL 640.00
Cap Rock
This section of land is all grazing land with some rough hill and deep draws. Soils are erosive and access may be restricted in some areas. There is a creek and two reservoirs.
The steep topography/unstable soils stipulation and the stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5197 Hodges SE 12.N 59.E 16 ALL 640.00
This section of land is all grazing land with gently rolling hills. No special concerns.

5198 Red Top Butte 12.N 59.E 36 ALL 640.00
Carlyle NW
This section of land is all grazing land. It is watered by a reservoir and Beaver Creek.
The stream, reservoir, etc buffer stipulation will be added to this tracts lease.

LESSOR: DEPT OF TRANSPORTATION

WIBAUX (ELO, FWP-7)

The NO surface occupancy of highway tracts will be added to the leases of these three tracts.

5199 Duck Creek 12.N 60.E 1 HIGHWAY TRACT IN N2NE4 4.72

5200 Red Top Butte 12.N 60.E 2 HIGHWAY TRACT IN N2NW4NW4 2.60

5201 Red Top Butte 12.N 60.E 4 HIGHWAY TRACT IN N2NE4, E2NE4NW4 8.58

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

WIBAUX (ELO, FWP-7)

5202 Red Top Butte 12.N 60.E 8 NW4 160.00
This tract of land is both grazing and agriculture with 112.7 acres being farmed. There is a noxious weed problem but it should be covered with standard weed stipulation. There is an intermittent drainage. The stream, etc. buffer stipulation will be added to this tract's lease
The standard weed stip is placed on all MT oil & gas leases.

LESSOR: DEPT OF TRANSPORTATION

WIBAUX (ELO, FWP-7)

The no-surface occupancy of highway tracts will be added to the leases of these two tracts.

5203 Red Top Butte 12.N 60.E 10 HIGHWAY TRACT IN E2SE4 2.42

5204 Red Top Butte 12.N 60.E 11 HIGHWAY TRACT IN W2SW4 2.42

5205 Red Top Butte 12.N 60.E 14 HIGHWAY TRACT IN W2NW4, W2SW4 4.96
This area on the map shows as part of the Lame Steer National Wildlife Refuge.
The no-surface-occupancy of highway tracts stipulation will be placed on this lease. For this tract
5206 Red Top Butte 12.N 60.E 15 HIGHWAY TRACT IN E2E2 4.55
This area on the map shows as part of the Lame Steer National Wildlife Refuge.
The no-surface-occupancy of highway tracts stipulation will be placed on this lease for this tract.

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

WIBAUX (ELO, FWP-7)

5207 Red Top Butte 12.N 60.E 16 ALL 640.00
This section has 422.8 acres of agriculture with the remainder being grazing. It borders the Lame Steer National Wildlife Refuge and Lame Steer Creek runs through this section. There is an old historic homestead on this lease. The sensitive areas stipulation will be placed on this tract's lease.

LESSOR: DEPT OF TRANSPORTATION

WIBAUX (ELO, FWP-7)

5208 Red Top Butte 12.N 60.E 22 HIGHWAY TRACT IN E2SE4, E2NE4 7.49
This borders the Lame Steer National Wildlife Refuge. The no surface occupancy of highway tracts
5209 Red Top Butte 12.N 60.E 23 HIGHWAY TRACT IN W2W2 stipulation will be placed on this tracts lease 4.93
This borders the Lame Steer National Wildlife Refuge. stipulation
The no-surface-occupancy of highway tracts will be placed on this tract's lease.

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

WIBAUX (ELO, FWP-7)

5210 Carlyle 12.N 60.E 36 ALL 640.00
Duck Creek
This section of land has 262.1 acres of cropland, a 1.94 acre homesite lease, and the remainder is grazing. Lame Steer Creek runs through the section. The stream, etc. buffer stipulation will be placed on this tract's lease.

LESSOR: DEPT OF TRANSPORTATION

WIBAUX (ELO, FWP-7)

The no-surface-occupancy of highway tracts stipulation will be placed on the leases of these four tracts.

5211 Duck Creek 12.N 61.E 5 HIGHWAY TRACT IN W2W2 9.38

5212 Duck Creek 12.N 61.E 6 HIGHWAY TRACTS IN LOTS 2, 3, 4, SE4SE4 11.18

5213 Duck Creek 12.N 61.E 7 HIGHWAY TRACTS IN E2 6.87

5214 Duck Creek 12.N 61.E 8 HIGHWAY TRACTS IN W2 13.28

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

WIBAUX (ELO, FWP-7)

5215 Duck Creek 12.N 61.E 16 LOTS 1, 2, 3, 4, W2 429.40
This section is all cropland next to the North Dakota line. comment noted.

LESSOR: DEPT OF TRANSPORTATION The no surface occupancy of highway tracts three

WIBAUX (ELO, FWP-7) stipulation will be placed on the leases of these tracts

5216 Duck Creek 12.N 61.E 17 HIGHWAY TRACTS IN W2 13.22

5217 Duck Creek 12.N 61.E 19 HIGHWAY TRACTS IN E2 10.14

5218 Duck Creek 12.N 61.E 20 HIGHWAY TRACT IN SW4 4.04

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

WIBAUX (ELO, FWP-7)

5219 Freeman Creek 13.N 59.E 4 LOTS 1, 2, S2NE4 161.04
Wibaux
This tract has 108.5 acres of CRP with the remainder being grazing. There is an intermittent drainage with 2 reservoirs. The CRP stipulation and the stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5220 Freeman Creek 13.N 59.E 16 ALL 640.00
Wibaux
This section has 171.3 acres of a hayland with the remainder being grazing. Spring creek runs through section and there is one reservoir. There is also a stockwater pipeline. The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5221 Red Top Butte 13.N 59.E 36 ALL 640.00
This section of land is all grazing with Beaver Creek meandering through the lease. It makes for a very productive overflow area. There is an abandoned set of old buildings that may have some historic significance. The stream, etc. buffer stipulation will be added to this tract's lease. The cultural resources stipulation is placed on all MT oil and gas lease. * leases.

5222 Wibaux 13.N 60.E 16 ALL * 640.00
Beach West
STATE DOES NOT OWN THE SURFACE IN THE NE4.
The majority of the section is cropland with some shallower soils being grazing. There is one well present. The stream, well, etc. buffer stipulation will be added to this tract's lease.

LESSOR: DEPT OF TRANSPORTATION

WIBAUX (ELO, FWP-7) The no surface occupancy of highway tracts stipulation will be placed on the leases of these two tracts.

5223 Red Top Butte 13.N 60.E 31 HIGHWAY TRACT IN S2S2 8.58

5224 Duck Creek 13.N 60.E 35 HIGHWAY TRACT IN S2SW4 2.92

LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION

WIBAUX (ELO, FWP-7)

5225 Duck Creek 13.N 60.E 36 ALL * 640.00
STATE DOES NOT OWN THE SURFACE IN THE E2.
The majority of this section is cropland with the remainder being grazing. A creek runs through the E2 and there is a well on the west half. There is an abandoned homesite on this section. The stream, well, etc. buffer stipulation will be added to this tract's lease. The setbacks from homes, etc. are covered in sec. 28 of the lease.

5226 Wibaux 14.N 59.E 16 ALL 640.00
Freeman Creek
There are 402.3 acres of cropland on this lease with the remainder being grazing. Water sources include a well and a reservoir along an intermittent drainage. The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5227 Wibaux 14.N 60.E 16 ALL 640.00
Beach West
This section has 423.1 acres of crop or hayland with the rest being grazing. Beaver Creek runs through the section. There is also a railroad present. The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5229 Odland Dam SW 15.N 59.E 36 NE4, S2 480.00
This section has 21 acres of hay and a waterspreading project. There is a homesite on State and the remainder of the lease is grazing. There is canada thistle present that should be covered by standard weed stip. There is a nice perennial creek. I found an archaeological site on this section and Patrick Rennie has done an initial review. It is a very nice site and in the future he wants to do further work with the site. If a project was proposed in the location of this project then there would be a delay until that work could be done and it would probably be required of the company to hire the consultant to do the work. The std. weed stip is added to all leases. The cultural resources (archaeology) stipulation is added to all MT oil & gas leases and will cover this site. The stream, etc. buffer stipulation will be added to this tract's lease. The homesite is covered by setback in the lease in section 28

5230 Odland Dam SW 15.N 60.E 16 ALL 640.00
Odland Dam
This lease has a 100.6 acres of cropland with the rest being grazing. There is a well and the east branch of Beaver Creek to provide water. The stream, well, etc. buffer stipulation will be added to this tract's lease.

5231 Odland Dam 15.N 60.E 36 ALL 640.00
This section is almost all cropland.

5232 Odland Dam NW 16.N 59.E 2 LOTS 1, 2, S2NE4, SE4 326.48
There is 51.9 acres of CRP with the rest being grazing. The terrain is rolling with some erosive soils. There is a creek and a well. Historic sites include an old silo, foundation and well. The CRP stipulation, the stream, well, etc. buffer stipulation and the unstable soils stipulation will be placed on this tract's lease. The cultural resources stipulation is placed on all MT oil & gas leases.

5233 Odland Dam NW 16.N 59.E 12 LOTS 3, 4, S2NW4, SW4 324.31
This tract is grazing land with some tame pasture that may be cut for hay. There is a noxious weed problem but it's not serious and standard weed stip should be adequate.
The standard weed stipulation is added/placed on all MT oil & gas leases.

5234 Odland Dam NW 16.N 59.E 16 ALL 640.00
This section is all grazing land. It has gently rolling terrain with some shallower erosive soils on hills. One well in center of section. The stream, well, etc. buffer stipulation will be placed on this tracts lease. The erosive soils will be addressed under basic stip #1.

5235 Cluster Buttes SE 16.N 59.E 32 LOTS 1, 2, NE4, N2SE4 326.69
This section has 63.8 acres of cropland with the rest being grazing. Box Elder Creek runs through the section. There are some erosive soils. The stream, etc. buffer stipulation will be placed on this tract's lease. The erosive soils will be addressed under basic stip #1 & site specific op. plan review

5236 Odland Dam 16.N 60.E 36 ALL 640.00
This section has 271.9 acres of farming and the rest is grazing. There is an intermittent drainage with an undeveloped spring and one well.

The stream, spring, well, etc. buffer stipulation will be placed on this tract's lease.

Kinley, Teresa

From: Flowers, Pat [pflowers@montana.edu]
Sent: Friday, January 19, 2001 1:28 PM
To: Kinley, Teresa
Cc: Peterson, Joel; Gayle Joslin (E-mail)
Subject: FW: Comments on Leases

O&G012401.doc

Lease96 o&g.doc

Lyons94 0&g.doc

Hi Teresa,

In the interest of time I thought I would simply forward you through e-mail the FWP Region 3 comments on proposed oil and gas leases. As Gail suggests below, please let me know whether you need these comments in hard copy.

thanks,
Pat

-----Original Message-----
From: Joslin, Gayle [mailto:gjoslin@state.mt.us]
Sent: Wednesday, January 17, 2001 5:23 PM
To: Flowers, Pat; Peterson, Joel
Subject: Comments on Leases

Attached are my official comments on the current oil and gas leases being offered for sale. Also attached are previous comments from 1994 and 1996 that apply to these areas as well. Hope this is what you need. If you want hard copy, let me know. Gayle

TO: Pat Flowers
FROM: Gayle Joslin
DATE: January 17, 2001
SUBJECT: DNRC Oil and Gas Lease Tracts

The following DNRC tracts proposed for oil and gas leasing, all occur within my area of responsibility. Specific information for each tract is provided in brackets. Previous correspondence relative to tracts in the Lyons Creek and Medicine Rock Creek areas are relevant and particularly important to Fish, Wildlife & Parks in that we now hold conservation easements on all surrounding lands in these drainages (Sieben Lyons Creek and O'Connell Lyons Creek Easements). It is recommended that no surface occupancy stipulations be ascribed to these parcels due to their important wildlife nature and extremely rugged terrain.

Management Guidelines presented in the Rocky Mountain Front Wildlife Monitoring/Evaluation Program apply specifically to the wildlife present. Their application in all instances and on all tracts would be to the benefit of these species. These include seasonal and distance restrictions. No Surface Occupancy stipulations as recommended would serve to protect grizzly bears.

If more specifics are needed, please contact me.

LEWIS & CLARK (CLO-H, FWP-3, FWP-4)

5023 Rattlesnake Mountain 12.N 3.W 7 LOTS 1, 2, NE4, E2NW4 317.40
[elk and mule deer yearlong habitat - Winter Range for all]
The sensitive areas stipulation will be utilized on this tract's lease.

5024 Upper Holter Lake 12.N 3.W 16 ALL 640.00
[elk, mule deer and pronghorn antelope yearlong habitat - Winter Range for all]
The sensitive areas stipulation will be utilized on this tract's lease.

5025 Rattlesnake Mountain 12.N 3.W 18 SE4SW4, S2SE4 120.00
[elk, mule deer and pronghorn antelope yearlong habitat - Winter Range for all]
The sensitive areas stipulation will be utilized on this tract's lease.

5026 Rattlesnake Mountain 12.N 3.W 30 LOTS 1, 2, 3, 4, E2W2, NE4 472.38
[elk, mule deer and pronghorn antelope yearlong habitat - Winter Range for all]
The sensitive areas stipulation will be utilized on this tract's lease.

5027 Upper Holter Lake 12.N 3.W 36 ALL 640.00
Lake Helena
[North Hills adjacent to BLM lands; elk, mule deer yearlong habitat - Winter Range for both]
The sensitive areas stipulation will be utilized on this tract's lease.

5028 Beartooth Mountain 13.N 3.W 9 ALL * 640.00
STATE DOES NOT OWN THE SURFACE.
The Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation will be utilized on this tract.
[Sleeping Giant: bighorn sheep, mountain goat, mule deer yearlong habitat, suitable peregrine falcon habitat]

5029 Beartooth Mountain 13.N 3.W 13 LOTS 7, 8, 11, SW4, W2SE4, * 465.00
MISSOURI RIVERBED AND RELATED ACREAGE
STATE DOES NOT OWN THE SURFACE.
[Ming Bar/Beartooth WMA - important wildlife crossing of the Missouri River; yearlong habitat for bighorn sheep, mountain goat, elk, mule deer, bear, lion]
The Beartooth WMA/Gates of the Mountains Wilderness/Sleeping Giant and Sheep Creek WSA sensitive area stipulation will be utilized on this tract as well as the NSO of navigable riverbeds and related acreage stipulation.

5030 Beartooth Mountain 13.N 3.W 16 N2 320.00
[Log Gulch adjoining OxBow Ranch; elk, bighorn sheep, mule deer, lion yearlong habitat and occassional mountain goat occurrence.] The Sleeping Giant and Sheep Creek WSA/ Beartooth WMA/ Gates of the Mountains Wilderness sensitive area stipulation will be utilized on this tract.

5031 Upper Holter Lake 13.N 3.W 28 NW4NE4, W2NW4, SE4NW4, NE4NE4, S2NE4, S2 600.00
[Adjacent to Sieben Ranch and Hilger Hereford Ranch; antelope and mule deer yearlong habitat]
The sensitive areas stipulation will be utilized on this tracts lease.

5032 Rattlesnake Mountain 13.N 3.W 30 LOTS 1, 2, 3, 4, E2, E2W2 636.38
[Adjacent to Sieben Ranch and Hilger Hereford Ranch; antelope and mule deer yearlong habitat]
The sensitive areas stipulation will be utilized on this tracts lease.

5033 Upper Holter Lake 13.N 3.W 36 LOTS 1, 2, 5, 6, NW4NE4, NW4, N2SW4, SW4SW4, MISSOURI RIVERBED AND RELATED ACREAGE 470.62
[Within Gates of the Mountain Wildlife Preserve; mountain goats, bighorn sheep, mule deer, lion yearlong habitat] The Gates of the Mountains Wilderness/Beartooth WMA/ Sleeping Giant and Sheep Creek WSA sensitive area stipulation will be utilized on this tract.

5082 Wilborn 14.N 5.W 8 ALL 640.00
[Lyons Mountain, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat; wolves suspected to be present]
The sensitive areas stipulation will be utilized on this tracts lease.

5083 Mitchell Mountain 14.N 5.W 14 E2NE4, NW4NE4, NE4NW4, W2W2 320.00
[Lyons Creek, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat; wolves suspected to be present]
The sensitive areas stipulation will be utilized on this tracts lease.

5084 Wilborn 14.N 5.W 18 E2 320.00
[Lyons Mountain, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat; wolves suspected to be present]
The sensitive areas stipulation will be utilized on this tracts lease.

5085 Wilborn 14.N 5.W 20 ALL 640.00
[S. Fk. Lyons Creek, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat]
The sensitive areas stipulation will be utilized on this tracts lease.

5086 Mitchell Mountain 14.N 5.W 22 W2NE4, NW4, NW4SW4 280.00
[S. Fk. Lyons Creek, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat; wolves suspected to be present]
The sensitive areas stipulation will be utilized on this tracts lease.

5087 Mitchell Mountain 14.N 5.W 28 N2NE4, E2NW4 160.00
Wilborn
[S. Fk. Lyons Creek, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat]
The sensitive areas stipulation will be utilized on this tracts lease.

5088 Mitchell Mountain 14.N 5.W 34 ALL 640.00
[Medicine Rock Creek, Sieben and O'Connell Conservation Easements held by FWP adjoin; grizzly bear, black bear, elk, mule deer, mountain lion yearlong habitat]
The sensitive areas stipulation will be utilized on this tracts lease.

Helena Area Resource Office
930 Custer Avenue West
Helena, MT 59620-0701
April 24, 1996

Teresa Kinley, Hydrogeologist
Minerals Management Bureau
Montana Dept. of Natural Resources
P.O. Box 201601
Helena, MT 59620-1601

Dear Ms. Kinley,

Regarding the list of tracts up for oil and gas leasing that was recently sent to the FWP Great Falls Region (R-4), there are a few parcels that also occur within the Bozeman (R-3) Region that we would like to comment upon.

Attached is correspondence submitted about 1½ year ago to your Bureau regarding other available parcels. Much of our concerns about these areas is discussed here, but in addition to the concerns raised at that time, Fish, Wildlife & Parks is now in the process of pursuing Conservation Easements on several parcels of private lands within the Lyons Creek drainage. Protection of wildlife resource values is thus a high priority.

Parcel 5066 occurs in Bear Gulch of the North Fork of Lyons Creek. Parcels 5073 and 5074 occur in Willet Gulch, also in the North Fork. These parcels are vital wildlife habitat, and specifically have very high value as grizzly bear denning habitat as well as elk and mule deer security areas. We recommend a no-surface occupancy stipulation.

Thank you for consideration and this opportunity to comment.

Sincerely,

Gayle Joslin
Wildlife Biologist
Helena Resource Area Office
406/444-4720 Ext. 155

c: Joel Peterson

Wildlife Manager, R-3

1404 Eighth Avenue
Helena, MT 59620

August 10, 1994

Barbara Hamburg, Supervisor
Mineral Leasing Section
Minerals Management Bureau
Montana Dept. of State Lands
P.O. Box 201601
Helena, MT 59620-1601

ATTENTION: Monte Mason

Dear Ms. Hamburg,

Regarding your request for wildlife information on tracts of DSL land pending lease in Lewis & Clark County, we offer the following comment:

All tracts listed (5150, 5166, 5167, 5151, 5152, 5153, 5154) except 5155 occur within the Lyons Creek drainage. Tract 5155 occurs adjacent to Lyons Creek in the Medicine Rock drainage. This area is classified by Montana Fish, Wildlife & Parks as very important yearlong habitat for a variety of wildlife species, but particular emphasis is on elk, mule deer and grizzly bear. Mountain lions, black bear, wolves and mountain grouse also are known to use the area.

A grizzly and two cubs utilized the upper North and South Fork of Lyons Creek in recent years and likely denned on the north or east slopes of Lyons Mountain. Lyons Creek provides some of the most important security habitat for big game in both hunting districts 839 and 423. Its ability to sustain wildlife during the fall is very important to both that resource and the hunting community.

Tract 5155, in Medicine Rock Creek is important elk and deer winter range and spring calving/fawning habitat.

Implementation of all recommendations in the Interagency Rocky Mountain Front Wildlife Monitoring/Evaluation Program - Management Guidelines for Selected Species (September 1987), should exploration be realized, would be beneficial. Preferably these parcels, particularly Tracts 5150, 5151, 5152, 5153, 5154 would be best served by No Surface Occupancy stipulations.

The Sieben Ranch, O'Connell Ranch (in Lyons Creek) and DSL lands in Lyons Creek are under a FWP Block Management program wherein motorized use is designated to specified routes. Minimizing motorized travel throughout the drainage is pivotal to maintaining wildlife habitat values in this area since it is heavily used by the public from both Great Falls and Helena.

We appreciate the opportunity to comment.

Sincerely,

Gayle Joslin
Wildlife Biologist

Kinley, Teresa

From: Kellogg, Casey
Sent: Tuesday, January 23, 2001 11:58 AM
To: Kinley, Teresa
Cc: Roberts, Craig
Subject: March 6, 2001 MT Oil and Gas Lease Sale

Teresa-

I have attached my memo with my comments regarding the lease sale. Let me know if you have any questions.

-----Original Message-----
From: Kinley, Teresa
Sent: Friday, December 29, 2000 11:03 AM
To: Roberts, Craig; Kellogg, Casey; Smith, Barny; Richards, Hoyt
Subject: March 6, 2001 MT Oil and Gas Lease Sale,
Importance: High

I am sending the tract list and my request for comments letter as attached files in Word 97 format. The tract list is a Word file ending in the suffix ".doc" and is in plain text, Courier New font, 8-point size. I have also attached an additional file for informational purposes

As noted in the attached letter, the deadline for comments is January 24, 2001. You do not need to include tracts outside your area in the comments that you return. Comments can be returned by postal mail or electronic mail, however, electronic mail is preferred.

Please contact me at (406) 444-2074 if you have any questions. Thank you for your assistance.

Teresa Kinley

January 23, 2001

MEMORANDUM

TO: Teresa Kinley, Hydro-Geologist, MMB

FROM: Casey Kellogg, Havre Unit Manager, NELO

RE: March 6, 2001 Oil & Gas Lease Sale
Blaine, Hill, and Liberty Counties

I have reviewed each tract of land associated with this proposed Oil & Gas lease sale. I included comments for the pieces of land that are located within the Havre Unit. I do not have information of the CRP status on the tracts where the state does not own the surface.

I recommend proceeding with the standard lease sale on all the tracts of land reviewed in this MEMO.

12-28-00 STATE OF MONTANA
OIL & GAS LEASE SALE - MARCH 6, 2001

HYDROLOGIST'S REPORT

APP#	TOPO MAP	TWP	RGE	SEC	DESCRIPTION		ACRES
LESSOR: DEPT OF NATURAL RESOURCES & CONSERVATION							
BLAINE (NELO-H, FWP-6)							
+5019	Cleveland Cleveland NW	30.N	20.E	7	LOT 4, E2SW4		122.52

This tract contains 122.55 acres of classified grazing land located near the Chief Joseph Battleground of the Bearpaw State Monument. There are several stone circles and cairns located on the surface. The cultural resources stipulation is placed on all MT oil & gas leases. The Battleground is ~ 1/2 to 1 mile away from this tract.

5003	Cleveland NW	31.N	19.E	36	ALL STATE DOES NOT OWN THE SURFACE IN THE E2.	*	640.00

This tract contains 300.3 acres of classified grazing land and 4.7 acres of classified hayland. Snake Creek goes through the E2 of this section. Ranch buildings are located in the E2 of this section as well. The stream, etc. buffer stipulation Setbacks are placed on all MT oil and gas leases in Section 28 of Hole ase, will be added to this lease

5020	Lohman SE	33.N	18.E	35	SE4 STATE DOES NOT OWN THE SURFACE.	*	160.00

There are no special features on this tract.

5022	Tule Lake Rabbit Hills	34.N	20.E	16	ALL		640.00

This tract contains 640 acres of classified grazing land. Coal Creek Coulee goes north and south through this section. There is a reservoir in the SE4.

The stream, reservoir, etc. buffer stipulation will be placed on this lease.

5144 Gildford NW 33.N 10.E 4 LOTS 3, 4 81.60
This tract contains 81.1 acres of classified grazing land. O'Brien Coulee goes east and west through this tract. There is a reservoir in the NE4NW4.
The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5145 Gildford NW 33.N 10.E 5 LOTS 1, 2 81.47
This tract contains 80.97 acres of classified grazing land. O'Brien Coulee goes east and west through this tract. There is a water pit in the NE4NE4.
The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5146 Hingham 33.N 10.E 16 ALL * 640.00
STATE DOES NOT OWN THE SURFACE IN THE NW4, S2.
This tract contains 153.7 acres of classified agriculture land. There are no special features on this tract.

5147 Hingham 33.N 10.E 21 NW4 160.00
This tract contains 154.7 acres of classified agriculture land. There are no special features on this tract.

5148 Hingham 33.N 10.E 36 ALL * 640.00
Gildford STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5237 Gildford NE 33.N 11.E 4 LOTS 1, 2, 3, 4, S2N2 321.64
This tract contains 307.4 acres of classified agriculture land. There are no special features on this tract.

5238 Gildford NE 33.N 11.E 5 S2 320.00
This tract contains 309.4 acres of classified agriculture land. There are no special features on this tract.

5239 Gildford NE 33.N 11.E 8 E2W2, NW4NW4, SW4SW4 240.00
Gildford
This tract contains 144.2 acres of classified agriculture land and 95.8 acres of classified grazing land. There is an old gravel pit site in the NE4NW4.

5240 Gildford 33.N 11.E 16 ALL 640.00
This tract contains 607.8 acres of classified agriculture land. There are no special features on this tract.

5241 Gildford 33.N 11.E 17 N2NW4 80.00
This tract contains 58.3 acres of classified agriculture land and 21.7 acres of classified grazing land. There are no special features on this tract.

5242 Gildford 33.N 11.E 31 LOTS 1, 2, 3, E2W2, E2 * 600.19
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5243 Gildford 33.N 11.E 33 SE4NE4, NE4SE4, E2SE4SE4 LESS * 83.00
RR R/W
STATE DOES NOT OWN THE SURFACE.
This tract borders the town of Gildford. Setbacks in the lease in Sec. 28 covers homes. Damages also are covered in this section 28 of the lea

5244 Gildford 33.N 11.E 34 S2NW4, N2SW4, SW4SW4 * 200.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5143 Rudyard NW 34.N 8.E 19 NE4SW4 40.00
This tract contains 34 acres of classified agriculture land. O'Brien Coulee and a reservoir are located in the south portion of this tract.
The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5149 Gildford NW 34.N 10.E 3 LOTS 3, 4, SW4NW4, N2SW4, W2SE4 280.81

This tract contains 280.81 acres of classified grazing land. Sage Creek goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5150 Gildford NW 34.N 10.E 10 N2NE4 80.00

This tract contains 80 acres of classified grazing land. Sage Creek goes from the north to the south through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5151 Gildford NW 34.N 10.E 16 ALL 640.00

This tract contains 640 acres of classified agriculture land. There are no special features on this tract.

5152 Gildford NW 34.N 10.E 31 W2 * 320.00
STATE DOES NOT OWN THE SURFACE.

O'Brien Coulee goes west to east through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5153 Gildford NW 34.N 10.E 36 ALL 640.00
Gildford NE

This tract contains 21.3 acres of classified agriculture land and 618.7 acres of classified grazing land. Sage Creek goes from the west to the southeast through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5154 Dry Lake 34.N 11.E 1 SW4 * 160.00
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5155 Dry Lake 34.N 11.E 2 E2 * 320.00
Gildford NE
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5156 Gildford NE 34.N 11.E 5 E2 * 320.00
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5157 Gildford NE 34.N 11.E 11 W2 * 320.00
Dry Lake
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5158 Dry Lake 34.N 11.E 12 W2 * 320.00
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5159 Dry Lake 34.N 11.E 14 E2 * 320.00
Gildford NE
STATE DOES NOT OWN THE SURFACE.

There is a well located in the SE4SE4. Spring Coulee goes through the south portion of this tract. The spring, well, etc. buffer stipulation will be added to this tract's lease.

5160 Gildford NE 34.N 11.E 16 ALL 640.00

This tract contains 631.4 acres of classified agriculture land. There are no special features on this tract.

5161 Gildford NE 34.N 11.E 18 SE4 * 160.00
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5162 Gildford NE 34.N 11.E 19 NE4 * 160.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5163 Gildford NE 34.N 11.E 20 W2 * 320.00
STATE DOES NOT OWN THE SURFACE.
There is a building site in the southeast portion of this tract. Covered by setback in Sec. 28 of the lease

5164 Gildford NE 34.N 11.E 29 E2 * 320.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5165 Gildford NE 34.N 11.E 33 W2 320.00
This tract contains 315.4 acres of classified agriculture land. There are no special features on this tract.

5166 Dry Lake 34.N 11.E 36 ALL 640.00
This tract contains 632.3 acres of classified agriculture land. There are no special features on this tract.

5021 Quigley Coulee 34.N 14.E 36 ALL 640.00
This tract contains 500 acres of classified agriculture land and 138 acres of classified grazing land. There are three reservoirs in the SE4. The stream, reservoir, etc. buffer stipulation will be added to this tract's lease.

5104 Goldstone SW 35.N 8.E 9 S2 * 320.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5105 Goldstone SW 35.N 8.E 10 S2SE4 * 80.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5106 Goldstone SW 35.N 8.E 15 NE4, N2SE4 * 240.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5107 Goldstone SW 35.N 8.E 16 ALL 640.00
This tract contains 263.3 acres of classified agriculture land and 370.7 acres of classified grazing land. There is a large reservoir in the SE4. There are several stone circles and cairns located on this tract. The cultural resources stipulation is added to all MT oil & gas leases.

5108 Goldstone SW 35.N 8.E 17 N2, N2S2 * 480.00
The stream, reservoir, etc. buffer stip will be added to this tract's lease.
STATE DOES NOT OWN THE SURFACE.
There is a building site located in the NE4 of this tract. Covered by setback in Section 28 of the lease.

5109 McKinnsey Reservoir West 35.N 9.E 2 S2SW4 80.00
This tract contains 80 acres of classified grazing land. There are no special features on this tract.

5110 McKinnsey Reservoir West 35.N 9.E 3 N2SW4, SE4SW4, NW4SE4, S2SE4 240.00
This tract contains 240 acres of classified grazing land. Sage Creek goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5111 McKinnsey Reservoir West 35.N 9.E 10 NE4NE4 40.00
This tract contains 40 acres of classified grazing land. Sage Creek goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5112 McKinnsey Reservoir West 35.N 9.E 11 SE4SE4 40.00
This tract contains 40 acres of classified grazing land. There are no special features on this tract.

5113 McKinnsey Reservoir West 35.N 9.E 12 W2SW4 80.00
This tract contains 80 acres of classified grazing land. Sage Creek goes from the north to the south through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5114 McKinnsey Reservoir West 35.N 9.E 13 W2NW4, N2SW4, SE4SW4, W2SE4 280.00
McKinnsey Reservoir East
This tract contains 280 acres of classified grazing land. Sage Creek goes from the NW to the SE through this tract. There is a reservoir in the NW4SE4.
The stream, reservoir, etc buffer stipulation will be added to this tract's lease.

5115 McKinnsey Reservoir West 35.N 9.E 16 ALL * 640.00
STATE DOES NOT OWN THE SURFACE IN THE N2.
This tract contains 320 acres of classified grazing land in the S2. There are no special features on this tract.

5167 McKinnsey Reservoir East 35.N 10.E 1 LOTS 1, 2, S2NE4, SE4 320.06
Ninemile Coulee West
This tract contains 315.3 acres of classified agriculture land. There are no special features on this tract.

5168 McKinnsey Reservoir East 35.N 10.E 15 E2 320.00
This tract contains 312.8 acres of classified C.R.P. land. There are no special features on this tract. The CRP stipulation will be added to this tract's lease.

5169 McKinnsey Reservoir East 35.N 10.E 16 ALL * 640.00
STATE DOES NOT OWN THE SURFACE.
There is a reservoir in the W2.
The stream, reservoir, etc. buffer stipulation will be added to this tract's lease,

5170 McKinnsey Reservoir East 35.N 10.E 17 NE4 * 160.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5171 McKinnsey Reservoir East 35.N 10.E 19 LOTS 2, 3, E2SW4, SW4SE4 191.64
This tract contains 191.64 acres of classified grazing land. Sage Creek goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5172 McKinnsey Reservoir East 35.N 10.E 20 NE4, E2SE4 240.00
This tract contains 156.5 acres of classified agriculture land, 21.8 acres of classified grazing land, and 61.7 acres of grazing unused land. There are eight stone circles in the SE4SE4NE4. The cultural resources stipulation is added to all MT oil and gas leases.

5173 McKinnsey Reservoir East 35.N 10.E 21 W2NW4 80.00
This tract contains 75.2 acres of classified agriculture land. There are no special features on this tract.

5174 McKinnsey Reservoir East 35.N 10.E 26 E2 * 320.00
STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5175 McKinnsey Reservoir East 35.N 10.E 29 NW4NW4, S2NW4, NE4NE4, S2NE4, SW4, N2SE4 480.00
This tract contains 240 acres of classified grazing land. Sage Creek goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5176 McKinnsey Reservoir East 35.N 10.E 30 E2, SE4NW4, E2SW4 440.00

This tract contains 440 acres of classified grazing land. Sage Creek goes through the northeast portion of this tract. The stream, etc buffer stipulation will be added to this tracts lease.

5177 McKinnsey Reservoir East 35.N 10.E 32 NW4, W2NE4, NW4SE4 280.00
Gildford NW

This tract contains 280 acres of classified grazing land. Sage Creek goes through the northeast portion of this tract. Little Sage Creek goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

5178 Gildford NW 35.N 10.E 36 ALL 640.00
Gildford NE
McKinnsey Reservoir East
Ninemile Coulee West

This tract contains 622.7 acres of classified agriculture land. There are no special features on this tract.

5179 Ninemile Coulee West 35.N 11.E 8 NE4NE4 40.00

This tract contains 40 acres of classified grazing land. Ninemile Coulee goes from the NW to the SE through this tract. The stream, etc. buffer stipulation will be added to this tracts lease.

5180 Ninemile Coulee West 35.N 11.E 9 SW4NW4, NW4SW4, SE4SW4 120.00

This tract contains 120 acres of classified grazing land. Ninemile Coulee goes from the NW to the SE through this tract. There is a water pit in the NW4SW4. The stream, reservoir, etc. buffer stipulation will be added to this tracts lease.

5181 Ninemile Coulee West 35.N 11.E 10 E2 * 320.00
STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5182 Ninemile Coulee West 35.N 11.E 14 E2 320.00
Ninemile Coulee East

This tract contains 247.21 acres of classified agriculture land, 61.8 acres of classified grazing land, and 10.99 acres of unsuitable land. Ninemile Coulee goes through the south portion of this tract. There is a reservoir in the S2SE4. The stream, reservoir, etc. buffer stipulation will be added to this tracts lease.

5183 Ninemile Coulee West 35.N 11.E 15 S2, W2NE4, E2NW4, NW4NW4 * 520.00
STATE DOES NOT OWN THE SURFACE IN THE S2.

This tract contains 200 acres of classified grazing land. Ninemile Coulee goes through the north portion of this tract. There is a large water pit in the NE4NW4. The stream, reservoir, etc. buffer stipulation will be added to this tracts lease.

5184 Ninemile Coulee West 35.N 11.E 16 ALL 640.00

This tract contains 601.2 acres of classified agriculture land and 38.8 acres of unsuitable land. Ninemile Coulee goes through the northeast portion of this tract. There is a water pit in the NW4NE4. The stream, reservoir, etc. buffer stipulation will be added to this tracts lease.

5185 Ninemile Coulee West 35.N 11.E 18 LOTS 1, 2, 3, 4, E2W2 * 316.24
STATE DOES NOT OWN THE SURFACE IN LOTS 1, 2, 3, E2W2.

Lot 4 contains 39.16 acres of classified agriculture land. Lots 1-3 and the E2W2 contain 265.6 acres of C.R.P. land. The CRP stipulation will be added to this tract's lease.

5186 Ninemile Coulee West 35.N 11.E 28 ALL * 640.00
STATE DOES NOT OWN THE SURFACE IN THE S2.

The N2 contains 315.6 acres of classified agriculture land. There are no special features on this tract.

5187 Ninemile Coulee West 35.N 11.E 31 LOTS 1, 2, 3, 4, E2W2 315.16
Gildford NE
This tract contains 311.7 acres of classified agriculture land. There are no special features on this tract.

5188 Ninemile Coulee West 35.N 11.E 32 E2 * 320.00
Gildford NE STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5189 Dry Lake 35.N 11.E 36 ALL 640.00
Ninemile Coulee East
This tract contains 617.7 acres of classified agriculture land and 19.3 acres of unsuitable land. Archie Coulee goes from the NW to the SE through this tract. The stream, etc buffer stipulation will be added to this tract's lease.

5116 McKinnsey Reservoir West 36.N 8.E 36 ALL 640.00
Goldstone SW
This tract contains 305.1 acres of classified agriculture land and 325.9 acres of classified grazing land. Sage Creek goes through the N2 of this section. The stream, etc. buffer stipulation will be added to this tract's lease.

5117 McKinnsey Reservoir West 36.N 9.E 30 E2 320.00
This tract contains 270.2 acres of classified agriculture land and 49.8 acres of classified grazing land. There are two reservoirs in the NE4NE4. The stream, reservoir, etc buffer stipulation will be added to this tract's lease

5190 Lost River NE 36.N 11.E 16 ALL 640.00
Ninemile Coulee West
This tract contains 634.2 acres of classified agriculture land. There are no special features on this tract.

5191 Ninemile Coulee West 36.N 11.E 20 W2 320.00
This tract contains 300.1 acres of classified C.R.P. land. There are no special features on this tract. The CRP stipulation will be added to this tracts lease.

5192 Ninemile Coulee West 36.N 11.E 29 N2 320.00
This tract contains 312 acres of classified agriculture land. There are no special features on this tract.

5193 Ninemile Coulee West 36.N 11.E 30 LOTS 1, 2, E2NW4, E2 473.79
This tract contains 406 acres of classified agriculture land and 59.99 acres of classified grazing land. There is a reservoir in the SW4SE4. The Stream, reservoir, etc. buffer stipulation will be added to this tracts lease.

5194 Ninemile Coulee West 36.N 11.E 31 LOTS 1, 2, 3, 4, E2W2 308.76
This tract contains 308.76 acres of classified grazing land. Ninemile Coulee goes through the N2NW4 of this tract. The stream, etc. buffer stipulation will be added to this tract's lease.

LIBERTY (NELO-H, FWP-4)

5141 Chester NE 34.N 7.E 24 E2SW4 80.00
Rudyard NW
This tract contains 80 acres of classified grazing land. O'Brien Coulee goes through this tract. The stream, etc. buffer stipulation will be added to this tracts

5142 Chester NE 34.N 7.E 36 ALL * 640.00
Rudyard NW STATE DOES NOT OWN THE SURFACE.
There are no special features on this tract.

5093 Mount Lebanon 36.N 5.E 26 NW4SE4 40.00
This tract contains 40 acres of classified grazing land. There are no special features on this tract. This tract is within the Sweetgrass Hills East Butte Study area. The sensitive areas stipulation will be utilized on this lease due to the location of the tract.

5131 Mount Lebanon 36.N 5.E 34 SW4NE4, NW4, S2 520.00
This tract contains 520 acres of classified grazing land. There are no special features on this tract. This tract is adjacent to and partly within the East Butte study area of the Sweetgrass Hills. Due to its location, the sensitive areas stipulation will be utilized on this tract's lease.

5094 Mount Lebanon 36.N 5.E 35 E2E2, S2NW4, SW4 400.00

This tract contains 400 acres of classified grazing land. Tootsie Creek goes through the SE4NW4 of this tract. This tract is adjacent to the Sweetgrass Hills East Butte study area. Due to its location, the sensitive areas stipulation will ~~being~~ utilized on this tracts lease.

5095 Mount Lebanon 36.N 5.E 36 ALL 640.00

This tract contains 640 acres of classified grazing land. There are no special features on this tract. This tract is adjacent to the Sweetgrass Hills East Butte study area. Due to its location, the sensitive areas Stipulation will ~~being~~ utilized on this tracts lease.

5132 Vaver Reservoir 36.N 6.E 16 ALL * 640.00
Laird School STATE DOES NOT OWN THE SURFACE.

There are no special features on this tract.

5096 Vaver Reservoir 36.N 6.E 19 LOT 3, SW4SE4 66.00
Mount Lebanon

This tract contains 3.3 acres of classified hayland and 141.2 acres of classified grazing land. There are no special features on this tract.

5097 Vaver Reservoir 36.N 6.E 29 NW4NW4 40.00

This tract contains 40 acres of classified grazing land. There are no special features on this tract.

5098 Vaver Reservoir 36.N 6.E 30 NE4NE4 40.00
Mount Lebanon

This tract contains 3.65 acres of classified hayland and 35.75 acres of classified grazing land. Little Sage Creek goes through the southwest portion of this tract. The stream, etc. buffer stipulation will be added to this tracts lease.

5099 Vaver Reservoir 36.N 6.E 31 LOTS 2, 3, 4, SW4NE4, SE4NW4, 397.88
Mount Lebanon E2SW4, SE4

This tract contains 397.88 acres of classified grazing land. There is a spring in the NW4SE4. The stream, spring, etc buffer stipulation will be added to this tracts lease.

5133 Vaver Reservoir 36.N 6.E 32 S2 320.00

This tract contains 320 acres of classified grazing land. There are several cairns on the surface of this tract. The cultural resources stipulation is added to all MT Oil & gas leases.

5134 Vaver Reservoir 36.N 6.E 33 E2NW4, S2 400.00

This tract contains 21.9 acres of classified hayland and 215.8 acres of classified agriculture land, and 160 acres of classified grazing land. There are several stone circles in the NW4SW4. The cultural resources stipulation is added to all MT oil and gas leases.

5135 Hawley Hill 37.N 4.E 1 LOTS 1, 2, N2SE4 163.05

This tract contains 163.05 acres of classified grazing land. There are no special features on this tract.

5136 Hawley Hill 37.N 4.E 36 ALL 640.00

This tract contains 640 acres of classified grazing land. There is a spring in the SE4SE4 and a reservoir in the SW4SW4. This tracted is located within the East Butte study area of the Sweetgrass Hills. Due to its location the sensitive areas stipulation will be utilized on this tracts lease.

Kinley, Teresa

From: Marceau, Bonnie
Sent: Wednesday, January 24, 2001 3:38 PM
To: Kinley, Teresa
Cc: Sihler, Paul
Subject: FW: R4 oil & gas lease sale comments

Ms. Kinley
Please find attached file for comment.
Thank you,
Graham Taylor
Wildlife Manager
Region 4, FWP

From: Taylor, Graham
Sent: Wednesday, January 24, 2001 2:02 PM
To: Aderhold, Mike; Marceau, Bonnie
Subject: R4 oil & gas lease sale comments

Deadline for Comment is TODAY, Jan 24., so upon Mike's approval, please electronically forward the memo to Ms.Kinley.

Oil&Gas comments doc

GT

To: Teresa Kinley, DNRC
From: Mike Aderhold, MFWP
Subject: MT Oil and Gas Lease Sale, March 6, 2001

Enclosed are the comments of my Wildlife Staff related to the lease proposals you sent out December 29, 2000. We have limited our comments to those parcels upon which we need to express our interest and concern for potential future impacts to wildlife as a result of development of these leases. We reviewed 36 parcels in our administrative Region 4 for this purpose.

#5118 Sweetgrass Hills, west side of West Butte: represents important yearlong mule deer and elk range, including winter. Request withdrawal of this parcel.
The sensitive areas stipulation will be utilized on this tract.

#5035 Head of Stickney/Sheep Creeks: Relatively unroaded nature. Elk, mule deer and bighorn sheep presence in summer. Habitat connectivity between Devil's Kitchen area and Beartooth Wildlife Management Area. Need to consider stipulations that retain roadless nature of the area to avoid cumulative impacts to wildlife.
The sensitive areas stipulation will be utilized on this tract.

#5012 Missouri River: Withdraw that portion of lease section in floodplain and/or that includes riparian habitats. These riparian habitats trigger a host of species concerns from Bald Eagle to Osprey to, in the vicinity, cliff nesting raptors. The sensitive areas stipulation will be utilized on this tract as well as the NSO of navigable riverbeds and related acreage stipulation.

#5005 Sterling Ranch/ Beartooth WMA vicinity: Request strong seasonal stipulation. Elk winter range considerations. The Beartooth WMA / Sleeping Giant and Sheep Creek WSA / Gates of the Mountains Wilderness sensitive areas stipulation will be utilized on this tract.

#5006 Beartooth WMA fenceline within the Sterling Ranch: Critical elk winter range. By virtue of fence placement along the ridgeline, a portion of the DNRC section is fenced into the Beartooth WMA. Request withdrawal of that portion of the lease in section 8 within WMA. Request strong seasonal stipulation related to hunting activity and elk winter range concerns on balance of this section outside WMA. The Beartooth WMA / Sleeping Giant and Sheep Creek WSA / Gates of the Mountains Wilderness sensitive areas stipulation will be utilized on this tract.

For these sensitive or critically important lease sections above, we would like a stipulation that would allow MEPA review of any proposed surface disturbance or development. Call if you have any questions at 406-454-5846.

We appreciated receiving the lease site map you included with the Oil & Gas Lease Sale review.

Cc: Paul Sihler, FWP, Field Services

APPENDIX D: Public Comments Received Before Deadline

NOTE: For this March 6, 2001 Montana Oil and Gas Lease Sale, comments from the MT Department of Fish Wildlife and Parks Regions 3 and 4 and the Montana Wilderness Association indicated that tracts in Lewis and Clark County are in sensitive areas. MT-DFWP Region 4 also had concerns regarding application number 5118 in Toole County.

DNRC proposes to apply the Sleeping Giant/Sheep Creek/Beartooth WMS/Gates of the Mountains sensitive area stipulation, (number 20 in Appendix A, F-3 in Appendix B) to application numbers 5005, 5006, 5028, 5029, 5030, and 5033 in Lewis and Clark County. This determination resulted from their locations in close proximity to these sensitive areas. The Beartooth WMA is managed by DFWP in a manner and for wildlife objectives very similar to the Sun River Game Range. DFWP review and recommendation on the previous December 2000 sale was for a Rocky-Mountain Front-type sensitive areas stipulation for a tract adjoining the BWMA. The Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation is similar to F-2, (Appendix B) in that it specifically outlines Land Board review and approval and delineates the review process. As a part of this review "No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board." After completion of the review, the Land Board may approve, modify, or deny surface activity on the lease.

In addition, DNRC proposes to apply the sensitive areas stipulation (number 19 in the application list in Appendix A, F-1 in Appendix B) to application numbers 5023-5027, 5031-5032, 5082-5088, 5008-5014, and 5035 in central Lewis and Clark County and to 5007 in Cascade County. The Land Board has leased in this area in December 1999 and June 2000 and utilized the sensitive areas stipulation (F-1, Appendix B). The Lewis and Clark County tracts for which this proposal applies are on the March 2001 MT oil and gas lease sale are located southwest of Wolf Creek, MT, north and northwest of Lake Helena, southwest, east, and northeast of Craig, MT, and east of Highway 200 (south of Bowmans Corners). However, because of their general location in an area where species of general concern exist, the sensitive area stipulation is again believed appropriate.

[redacted]
MONTANA WILDERNESS ASSOCIATION

DNRC
Received
1/24/2001
~5:00 pm
TKinley

January 22, 2001

Teresa Kinley
Mineral Management Bureau
Department of Natural Resource and Conservation
Box 201601
Helena, MT 59620-1601

Dear Teresa.

The Chapter requests the State Land Board of Land Commissioners to apply the conservation stipulations developed for the Bob Marshall Ecosystem and approved in January 1999, to leases: 5028 which is located within the Sleeping Giant Wilderness Study Area. Further, we request that the conservation stipulations be applied to lease 5029 which borders the Beartooth Wildlife Management Area It is our understanding that the area provides valuable wildlife habitat. The Sleeping Giant and Sheep Creek WSA / Beartooth WA, Gates of the Mountains Wilderness sensitive area stipulation will be utilized on these two tracts

Please send us maps and other information about the following proposed lease applications: 5007,5008, 5009, 5027, 5028, 5030, 5031, 5032, 5033. These areas may also warrant conservation stipulations. Having some basic information about the area and its wildlife, recreation, and historic resources would enable the public to provide more meaningful comments.

Finally, we also renew our objection to the process of oil and gas leasing on state school trust lands. The current piecemeal approach too often results in the public land managers working at cross purposes. To more effectively involve the public and provide consistent management of public lands, we propose that the DNRC and DFWP begin a process to identify environmentally sensitive areas within the state, for example, wildlife management areas, wilderness study areas, federal roadless land and state parks, and that a policy for leasing environmentally sensitive areas be developed.

The sensitive areas stipulation will be utilized on Application # 5007 in Cascade County and application numbers 5008, 5009, 5027, 5031, & 5032 in Lewis and Clark County.

Sincerely,

Mark Good

The Sleeping Giant and Sheep Creek WSA / Gates of the Mountains Wilderness / Beartooth WAA sensitive area stipulation will be utilized on application # 5028, 5030, and # 5033 in Lewis and Clark County.

Central Field Office
1400 First Avenue North, #36 Great Falls, Montana 59401
t 406-453-9434 f 406-453-9434 e mwacent@wildmontana.org
www.wildmontana.org

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

TRUST LAND MANAGEMENT DIVISION

JUDY H. MARTZ, GOVERNOR

1625 ELEVENTH AVENUE

STATE OF MONTANA

DIRECTOR'S OFFICE (406) 444-2074
TELEFAX NUMBER (406) 444-2684

PO BOX 201601
HELENA, MONTANA 59620-1601

January 25, 2001

Mark Good
Montana Wilderness Association
1400 First Ave N #36
Great Falls MT 59401

Re: Comments on March O&G Lease Sale

Dear Mr. Good:

Teresa Kinley forwarded your fax letter from yesterday afternoon to me. We are aware of the locations of tract #'s 5028 and 5029. Our recommendation will be to include the sensitive area stipulation that we have utilized previously for leasing in areas such as this.

I have enclosed a copy of the BLM's Land Status Map at 1:1,000,000 scale. From this, you can easily determine any nominated parcel's location. If you wish more detailed map information, our state library now has free website access to USGS 7.5 minute topographic maps for the entire state. Their latest search engine includes the ability to directly enter township, range and section (right from our preliminary list) which automatically displays the proper map centered on the selected parcel. Their website is: http://nris.state.mt.us/topofinder.html We have one set of these maps available in our office as well.

We are currently accumulating comments and putting our EA together. The information we gather and our recommendation for additional stipulations is mailed to you as soon as our EA is completed. Our request for comments on the preliminary list is part of the process we worked out in prior discussions with your organization. You are welcome to stop by and inspect any information we have received at any time during the EA process. Keep in mind that our primary interest is hearing what issues or concerns you have about nominated tract(s), not whether you agree or disagree with what someone else thinks (or whether someone else disagrees with your issues or concerns!). It is up to us to review all comments received and recommend appropriate stipulations.

The only proposed action at this time is the issuance of a lease. Every lease we issue requires subsequent environmental review and approval for every land disturbing activity proposed for the tract. At that stage, site-specific review and analysis can then be conducted. This requirement for subsequent review continues for the life of the lease.

School trust lands have been leased for various uses, including mineral exploration and development, ever since being granted to the State by the Federal Enabling Act of 1889. Our mission is to manage school trust lands to produce revenues for the trust beneficiaries while considering environmental factors and protecting the future income generating capacity of the land. We seek comment from DFWP and value their expertise in wildlife resource issues, but the final decisions on how best to manage school trust lands for the benefit of the trust beneficiaries rests with this department and the Land Board. Towards that end, we continue to discuss creative ways to meet our responsibilities while also addressing wildlife issues that are of concern to DFWP. Our discussions with DFWP relative to the Sun River Game Range area are ongoing. We have also advised DFWP that they should list other areas about which they have management concerns if/when they wish to bring those into our discussions.

Thank you for your interest in school trust lands. As always, if you should have any questions or wish to discuss, please give me a call (406-444-3843).

Sincerely,

Monte G. Mason, Acting Administrator
Trust Land Management Division

Enc.

MONTANA WILDERNESS ASSOCIATION

January 22, 2001

RECEIVED
JAN 26 2001
D.N.R.C.

Teresa Kinley
Mineral Management Bureau
Department of Natural Resource and Conservation
Box 201601
Helena, MT 59620-1601

Dear Teresa:

The following comments were prepared on behalf of the Montana Wilderness Association Island Range Chapter. We ask the State Land Board of Land Commissioners to apply the conservation stipulations developed for the Bob Marshall Ecosystem and approved in January 1999, to the following leases:

5028 which is located within the Sleeping Giant Wilderness Study Area. The Sleeping Giant WSA has been recommended by the Bureau of Land Management for Wilderness designation because of its scenic vistas, outstanding opportunities for solitude, naturalness and a variety of resources of scientific, educational historic and geologic significance. Public involvement occurred throughout the wilderness review process in 1988 and support for wilderness designation included the Montana Department of Fish Wildlife and Parks. All public subsurface lands within the WSA are closed to oil and gas leasing. The Sleeping Giant and Sheep Creek WSA / Beartooth WMA / Gates of the Mountains Wilderness sensitive-area stipulation will be utilized on this tract.

#5005 which is located in close proximity to the Beartooth Wildlife Management Area and a portion of 5006 is fenced into the Beartooth Wildlife Management Area. Both of these areas provide valuable elk winter range. The Beartooth WMA / Sleeping Giant and Sheep Creek WSA / Gates of the Mountains Wilderness sensitive area stipulation will be utilized on this tract.

5012 along the Missouri River is located within the floodplain and includes riparian habitat for a variety of species including Bald Eagle, Osprey and other raptors. We ask that a conservation stipulation be placed on this lease. The sensitive areas stipulation will be utilized on this tract.

#5035 located at the head of Stickney/Sheep Creeks is in an area which provides connectivity between Devil's Kitchen area and the Beartooth Wildlife Management area for elk, mule deer and Bighorn sheep during the summer months A conservation stipulation is needed to retain the roadless nature of the areas to avoid cumulative impact to wildlife. The sensitive areas stipulation will be utilized on this tract.

Central Field Office
1400 First Avenue North, #36 Great Falls, Montana 59401
t: 406-453-9434 f: 406-453-9434 e: mwacent@wildmontana.org
www.wildmontana.org

Please send us other information about the following proposed lease applications: 5007,5008, 5009, 5027, 5030, 5031, 5032, 5033. These areas may also warrant conservation stipulations. Having some basic information about the area and its wildlife, recreation, and historic resources would enable the public to provide more meaningful comments.

Finally, we also renew our objection to the process of oil and gas leasing on state school trust lands. The current piecemeal approach too often results in the public land managers working at cross purposes. To more effectively involve the public and provide consistent management of public lands, we propose that the DNRC and DFWP begin a process to identify environmentally sensitive areas within the state, for example, wildlife management areas, wilderness study areas, federal roadless land and state parks, and that a policy for leasing environmentally sensitive areas be developed.

Sincerely,

Mark Good

RECEIVED
JAN 26 2001
D.N.R.C.

APPENDIX E: Late Comments

NOTE: For this March 6, 2001 Montana Oil and Gas Lease Sale, comments from the MT Department of Fish Wildlife and Parks Regions 3 and 4 and the Montana Wilderness Association indicated that tracts in Lewis and Clark County are in sensitive areas. MT-DFWP Region 4 also had concerns regarding application number 5118 in Toole County.

DNRC proposes to apply the Sleeping Giant/Sheep Creek/Beartooth WMS/Gates of the Mountains sensitive area stipulation, (number 20 in Appendix A, F-3 in Appendix B) to application numbers 5005, 5006, 5028, 5029, 5030, and 5033 in Lewis and Clark County. This determination resulted from their locations in close proximity to these sensitive areas. The Beartooth WMA is managed by DFWP in a manner and for wildlife objectives very similar to the Sun River Game Range. DFWP review and recommendation on the previous December 2000 sale was for a Rocky-Mountain Front-type sensitive areas stipulation for a tract adjoining the BWMA. The Sleeping Giant and Sheep Creek WSA/Beartooth WMA/Gates of the Mountains Wilderness sensitive area stipulation is similar to F-2, (Appendix B) in that it specifically outlines Land Board review and approval and delineates the review process. As a part of this review "No surface activities shall occur on the lease premises unless and until the Operating Plan or Amendment is approved by the Board." After completion of the review, the Land Board may approve, modify, or deny surface activity on the lease.

In addition, DNRC proposes to apply the sensitive areas stipulation (number 19 in the application list in Appendix A, F-1 in Appendix B) to application numbers 5023-5027, 5031-5032, 5082-5088, 5008-5014, and 5035 in central Lewis and Clark County and to 5007 in Cascade County. The Land Board has leased in this area in December 1999 and June 2000 and utilized the sensitive areas stipulation (F-1, Appendix B). The Lewis and Clark County tracts for which this proposal applies are on the March 2001 MT oil and gas lease sale are located southwest of Wolf Creek, MT, north and northwest of Lake Helena, southwest, east, and northeast of Craig, MT, and east of Highway 200 (south of Bowmans Corners). However, because of their general location in an area where species of general concern exist, the sensitive area stipulation is again believed appropriate.

FAX FORM

MILES CITY FIELD OFFICE
BUREAU OF LAND MANAGEMENT
111 GARRYOWEN ROAD
MILES CITY, MONTANA 59301

Phone: 406-232-4333 Fax: 406-233-2921

TO: TERESA Kinley
Office Code: ONRC

FROM: Kathy BOCKNESS
Office Code: Miles City 70

Date 1/23/01 No. of Pages 1

Special Instructions:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Miles City Field Office
111 Garryowen Road
Miles City, Montana 59301

IN REPLY TO:
3160

MAR 2 5 2001

Teresa Kinley, Geologist
Department of Natural Resources
and Conservation
Minerals Management Bureau
P.O. Box 201601
Helena, MT 59620-1601

Dear Ms. Kinley:

The following are comments from the Miles City Field Office, Bureau of Land Management concerning your March 6, 2001 State of Montana Oil and Gas Lease Sale:

T9S, R48E Sec 4, 8, 9
Flood plain of Powder River — On Sections 4 and 9 the sensitive areas stipulation that will be utilized will cover this concern. On Section 8 the 1/8th mile river buffer stipulation will be applied.

T15N, R59E Sec 36 SW
Along Beaver Creek - Flood plain — The 100-Ft stream buffer stipulation and the avoid wooded areas stipulation will be utilized on this tract.

T9S, R48E Sec 9
The SWNE is BLM Surface. A right-of-way from BLM would be required to authorize surface occupancy to drill. — Incorrect. Mineral ownership includes the right to occupy the surface and explore, drill etc. This would be done keeping the surface owner informed. Stipulation H in Appendix B will be applied to all tracts where the state does not own the surface including this one.

This Section is adjacted to the Buffalo Creek WSA that BLM did not recommend for wilderness designation. The sensitive areas stip. will be applied to this tract.

T9S, R48E Sec 4, Lot 6
This tract is adjacent to BLM ACEC for Reynolds Battlefield Historic Site and within the larger Area of Management concern. Recommend stipulations B, F-1 and I. — The sensitive areas stipulation (F-1) will be utilized on this tract. The cultural resources stipulation is placed on all MT oil and gas leases.

If you have any questions concerning these comments, please contact Kathy Bockness of our office at (406) 233-2844.

Sincerely,

Fred Wambolt

Fred Wambolt
Acting Assistant Field Manager, Resources

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Miles City Field Office
111 Garryowen Road
Miles City, Montana 59301

IN REPLY TO:
3160

JAN 2 5 2001

Teresa Kinley, Geologist
Department of Natural Resources
and Conservation
Minerals Management Bureau
P.O. Box 201601
Helena, MT 59620-1601

Dear Ms. Kinley:

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Along Beaver Creek - Flood plain

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The SWNE is BLM Surface. A right-of-way from BLM would be required to authorize surface occupancy to drill.

T9S, R48E Sec 4, Lot 6
This tract is adjacent to BLM ACEC for Reynolds Battlefield Historic Site and within the larger Area of Management concern. Recommend stipulations B, F-1 and 1.

If you have any questions concerning these comments, please contact Kathy Bockness of our office at (406) 233-2844.

See Fax copy
For responses

Sincerely,

Fred Wambolt

Fred Wambolt
Acting Assistant Field Manager, Resources

Kinley, Teresa

From: Hargreaves, Dixie
Sent: Thursday, January 25, 2001 2:59 PM
To: Kinley, Teresa
Subject: O & G Lease Comments

Company Name Here

Memo

To: Teresa Kinley

From: Robert Vlahovich

Date: 1/25/01

Re: O & G Lease Comments

The following are comments/concerns for tracts proposed for the 3/6/01 O & G Lease sale arranged by tract:

5007 – South Fork Stickney Creek, considerable elk use, steep rocky terrain
The sensitive areas stipulation will be utilized on this tract.

5023 – Elk & Deer Use
The sensitive areas stipulation will be utilized on this tract.

5024 – Elk & Deer Use
The sensitive areas stipulation will be utilized on this tract.

5025 – I-15 splits tract, some elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5026 – I-15 splits tract, communication site in NE¼
The sensitive areas stipulation will be utilized on this tract.

5027 – Elk and deer use, steep terrain in E½
The sensitive areas stipulation will be utilized on this tract.

5028 – Steep rocky terrain, beacon site, surface part of WSA with BLM
The Sleeping Giant and Sheep Creek WSA / Beartooth WMA / Gates of the Mountains Wilderness sensitive area stipulation will be utilized on this tract.

5029 – Beartooth WMA, recreational use, Willow Creek
The Beartooth WMA / Sleeping Giant and Sheep Creek WSA / Gates of the Mountains Wilderness sensitive area stipulation will be utilized on this tract.

5030 – Steep rocky terrain
Since this tract is adjacent to the Sleeping Giant and Sheep Creek WSA the Sleeping Giant and Sheep Creek WSA / Beartooth WMA / Gates of the Mountains Wilderness sensitive area stipulation will be utilized on this tract.

5031 – Elk use, old school site in NENW
The sensitive areas stipulation will be utilized on this tract.

5032 – Spring in SW¼, previous timber sale split by I-15
The sensitive areas stipulation will be utilized on this tract.

5033 – Steep rocky terrain, adjacent to Gates Wilderness, scenic values, goat use
The Gates of the Mountains Wilderness / Beartooth WMA / Sleeping Giant and Sheep Creek WSA Sensitive area stipulation will be utilized on this tract.

5005 – Elk, deer and bear use, previous timber sale
Due to FWP comments, the Beartooth WMA / Gates of the Mountains Wilderness / Sleeping Giant and Sheep Creek WSA Sensitive area stipulation will be utilized on this tract.

5006 – Elk, deer and bear use, adjacent to Beartooth WMA
The Beartooth WMA / Gates of the Mountains Wilderness / Sleeping Giant and Sheep Creek WSA Sensitive area stipulation will be utilized on this tract.

5082 – Steep rocky terrain, possible grizzly bear use, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5083 – Lyons Creek, steep rocky terrain, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5084 – Steep rocky terrain, possible grizzly bear use, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5085 – South Fork Lyons Creek, possible grizzly bear use, elk and deer use, steep rocky terrain
The sensitive areas stipulation will be utilized on this tract.

5086 – Steep rocky terrain, possible grizzly bear use, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5087 – Steep rocky terrain, possible grizzly bear use , elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5088 – Medicine Rock Creek, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5008 – South Fork Stickney Creek, previous timber sale, elk and deer use, adjacent subdivision
The sensitive areas stipulation will be utilized on this tract.

5009 – South Fork Stickney Creek, previous timber sale, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5010 – Wegner Creek, previous timber sale, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5011 – Wegner Creek, previous timber sale, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

5012 – Missouri River, along recreation road, deer use
The sensitive areas stipulation and the NSO of navigable riverbeds and related acreage stipulation will be utilized on this tract.

5013 – Wegner Creek, deer use
The sensitive areas stipulation will be utilized on this tract.

5014 – Powerline, gravel pit in NE¼, split by I-15, Missouri River, BNRR, deer use
The sensitive areas stipulation and the NSO of navigable riverbeds and related acreage stipulation will be utilized on this tract.

5035 –South Fork Dearborn River, elk and deer use
The sensitive areas stipulation will be utilized on this tract.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Lewistown Field Office
Airport Road, P.O. Box 1160
Lewistown, Montana 59457-1160
406/538-7461, http://www.mt.blm.gov/ldo

IN REPLY TO:

3160

RECEIVED
JAN 30 2001
D.N.R.C.

January 26, 2001

Montana Department of Natural Resources and Conservation
Trust Land Management Division
Attn: Teresa Kinley
P.O. Box 201601
Helena, MT 59620-1601

RE: March 6, 2001 State of Montana Oil and Gas Lease Sale

Dear Teresa:

We reviewed the parcel list for the counties in our management area and did not find any to have BLM surface ownership. No stipulations will be necessary to insure BLM involvement in permitting of the surface use for exploration.

There are three parcels of state lands that fall within the Sweet Grass Hills Study Area Boundary. Application numbers 5093, 5131 (N/2 NW1/4) and 5136 identify these parcels. During the EIS process one of the mitigation measures developed to insure the prevention of aquifer contamination was the requirement that all casing strings be cemented back to surface. This * stipulation was adopted for all future oil and gas permitting in the area. We recommend that this same standard be applied to the state leases. Much of the opposition to development in the area was due to inadequate producing and plugging practices, in the past, that resulted in groundwater contamination. Water quality concerns were the second most contentious issue in the area. The Blackfeet and Chipewa Cree Tribes have strong concerns about the general Sweet Grass Hills area.. We would suggest that the Tribes be added to your pre-sale mailing list to insure their involvement.

Thank you for the opportunity to comment on the sale offers. If there are any questions or concerns on this matter please contact Jim Mitchell of my staff.

The sensitive areas stipulation will be utilized on these three tracts in Liberty County.

Sincerely,

David L. Mari

David L. Mari
Field Manager

* BOGC has regulatory responsibility to ensure casing & cementing program are properly implemented to prevent contamination of groundwater (82-11-123 MCA)